

APPENDIX A
Environmental Justice Review Documentation

TABLE A-1

WASHINGTON STATE DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH DISPARITIES SUMMARY

WHIDBEY MARINE AUTO SUPPLY SITE

FREELAND WASHINGTON

| Environmental Health Disparities V 2.0 | | Risk Rank (Scaled 1 to 10) |
|--|--|-------------------------------|
| Environmental Exposures (1) | Diesel Exhaust PM2.5 Emissions | 1 |
| | Ozone Concentration | 3 |
| | PM2.5 Concentration | 2 |
| | Proximity to Heavy Traffic Roadways | 1 |
| | Toxic Releases from Facilities (RSEI Model) | 5 |
| Environmental Effects (1) | Lead Risk From Housing (%) | 3 |
| | Proximity to Hazardous Waste Treatment Storage and Disposal Facilities (TSDFs) | 3 |
| | Proximity to National Priorities List Facilities (Superfund Sites) | 2 |
| | Proximity to Risk Management Plan (RMP) Facilities | 1 |
| | Wastewater Discharge | - |
| Socioeconomic Factors (3) | Primary Language Other Than English | 1 |
| | No High School Diploma (%) | 1 |
| | People of Color (Race/Ethnicity) | 3 |
| | Population Living in Poverty <=185% of Federal Poverty Level (%) | 3 |
| | Transportation Expense | 8 |
| | Unaffordable Housing (>30% of Income) | 6 |
| | Unemployed (%) | 8 |
| Sensitive Populations (8) | Death from Cardiovascular Disease | 4 |
| | Low Birth Weight - Combined (%) | 10 |



EJScreen ACS Summary Report



Location: 5 miles Ring Centered at 48.009947,-122.523623

Description: Whidbey Marine & Auto

| Summary of ACS Estimates | | 2018 - 2022 | | |
|--|--|------------------------------|---------|---------|
| Population | | 9,391 | | |
| Population Density (per sq. mile) | | 225 | | |
| People of Color Population | | 919 | | |
| % People of Color Population | | 10% | | |
| Households | | 4,132 | | |
| Housing Units | | 5,795 | | |
| Housing Units Built Before 1950 | | 315 | | |
| Per Capita Income | | N/A | | |
| Land Area (sq. miles) (Source: SF1) | | 41.65 | | |
| % Land Area | | 55% | | |
| Water Area (sq. miles) (Source: SF1) | | 34.63 | | |
| % Water Area | | 45% | | |
| | | 2018 - 2022 ACS Estimates | Percent | MOE (±) |
| Population by Race | | | | |
| Total | | 9,391 | 100% | 441 |
| Population Reporting One Race | | 9,052 | 96% | 732 |
| White | | 8,521 | 91% | 368 |
| Black | | 117 | 1% | 101 |
| American Indian | | 100 | 1% | 97 |
| Asian | | 197 | 2% | 83 |
| Pacific Islander | | 3 | 0% | 13 |
| Some Other Race | | 115 | 1% | 70 |
| Population Reporting Two or More Races | | 339 | 4% | 95 |
| Total Hispanic Population | | 318 | 3% | 115 |
| Total Non-Hispanic Population | | 9,073 | | |
| White Alone | | 8,471 | 90% | 357 |
| Black Alone | | 117 | 1% | 101 |
| American Indian Alone | | 37 | 0% | 39 |
| Non-Hispanic Asian Alone | | 197 | 2% | 83 |
| Pacific Islander Alone | | 3 | 0% | 13 |
| Other Race Alone | | 45 | 0% | 57 |
| Two or More Races Alone | | 204 | 2% | 67 |
| Population by Sex | | | | |
| Male | | 4,739 | 50% | 269 |
| Females | | 4,652 | 50% | 217 |
| Population by Age | | | | |
| Age 0-4 | | 143 | 2% | 60 |
| Age 0-17 | | 1,139 | 12% | 133 |
| Age 18+ | | 8,252 | 88% | 329 |
| Age 65+ | | 3,311 | 35% | 244 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be any race.
N/A means not available. **Source:** U.S. Census Bureau, American Community (ACS) 2018 - 2022.



EJScreen ACS Summary Report



Location: 5 miles Ring Centered at 48.009947,-122.523623

Description: Whidbey Marine & Auto

| | 2018 - 2022 ACS Estimates | Percent | MOE (±) |
|--|------------------------------|---------|---------|
| Population 25+ by Educational Attainment | | | |
| Total | 7,841 | 100% | 361 |
| Less than 9th Grade | 0 | 0% | 37 |
| 9th - 12th Grade, No Diploma | 228 | 3% | 66 |
| High School Graduate | 1,093 | 14% | 130 |
| Some College, No Degree | 1,972 | 25% | 224 |
| Associate Degree | 755 | 10% | 115 |
| Bachelor's Degree or more | 3,792 | 48% | 260 |
| Population Age 5+ by Ability to Speak English | | | |
| Total | 9,248 | 100% | 434 |
| Speak only English | 8,942 | 97% | 416 |
| Non-English at Home ¹⁺²⁺³⁺⁴ | 305 | 3% | 93 |
| ¹ Speak English "very well" | 257 | 3% | 85 |
| ² Speak English "well" | 31 | 0% | 57 |
| ³ Speak English "not well" | 17 | 0% | 46 |
| ⁴ Speak English "not at all" | 0 | 0% | 45 |
| ³⁺⁴ Speak English "less than well" | 17 | 0% | 65 |
| ²⁺³⁺⁴ Speak English "less than very well" | 48 | 1% | 86 |
| Limited English Speaking Households* | | | |
| Total | 12 | 100% | 27 |
| Speak Spanish | 5 | 41% | 14 |
| Speak Other Indo-European Languages | 7 | 59% | 13 |
| Speak Asian-Pacific Island Languages | 0 | 0% | 13 |
| Speak Other Languages | 0 | 0% | 13 |
| Households by Household Income | | | |
| Household Income Base | 4,132 | 100% | 224 |
| < \$15,000 | 333 | 8% | 97 |
| \$15,000 - \$25,000 | 291 | 7% | 208 |
| \$25,000 - \$50,000 | 479 | 12% | 123 |
| \$50,000 - \$75,000 | 522 | 13% | 67 |
| \$75,000 | 2,508 | 61% | 180 |
| Occupied Housing Units by Tenure | | | |
| Total | 4,132 | 100% | 224 |
| Owner Occupied | 3,619 | 88% | 226 |
| Renter Occupied | 513 | 12% | 97 |
| Employed Population Age 16+ Years | | | |
| Total | 8,382 | 100% | 428 |
| In Labor Force | 4,157 | 50% | 353 |
| Civilian Unemployed in Labor Force | 117 | 3% | 53 |
| Not In Labor Force | 4,226 | 50% | 264 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be any race. N/A means not available. **Source:** U.S. Census Bureau, American Community (ACS) 2018 - 2022. *Households in which no one 14 and over speaks English "very well" or speaks English only.



EJScreen ACS Summary Report



Location: 5 miles Ring Centered at 48.009947,-122.523623

Description: Whidbey Marine & Auto

| | 2018 - 2022 ACS Estimates | Percent | MOE (±) |
|--|------------------------------|---------|---------|
| Population by Languages Spoken at Home* | | | |
| Total (persons age 5 and above) | 11,113 | 100% | 428 |
| English | 10,694 | 96% | 430 |
| Spanish | 182 | 2% | 110 |
| French, Haitian, or Cajun | 11 | 0% | 16 |
| German, or other Western Germanic | 14 | 0% | 22 |
| Russian, Polish, or Other Slavic | 3 | 0% | 13 |
| Other Indo-European | 77 | 1% | 50 |
| Korean | 0 | 0% | 13 |
| Chinese (including Mandarin, Cantonese) | 28 | 0% | 50 |
| Vietnamese | 21 | 0% | 43 |
| Tagalog (including Filipino) | 0 | 0% | 13 |
| Other Asian and Pacific Island | 35 | 0% | 46 |
| Arabic | 47 | 0% | 72 |
| Other and Unspecified | 0 | 0% | 13 |
| Total Non-English | 419 | 4% | 607 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be any race.
 N/A means not available. **Source:** U.S. Census Bureau, American Community (ACS) 2018 - 2022.
 *Population by Language Spoken at Home is available at the census tract summary level and up.



EJScreen Community Report

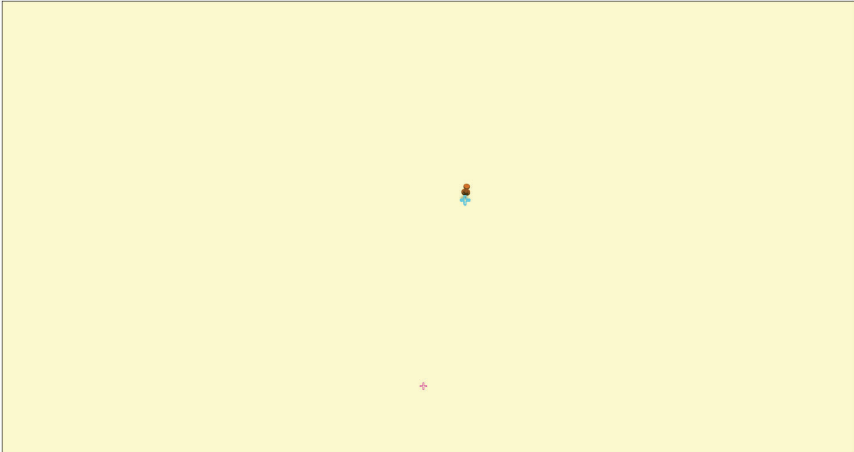
This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Whidbey Marine & Auto

5 miles Ring Centered at 48.009947,-122.523623

Population: 9,391

Area in square miles: 78.53



January 16, 2025

Whidbey Marine & Auto

Search Result (point)

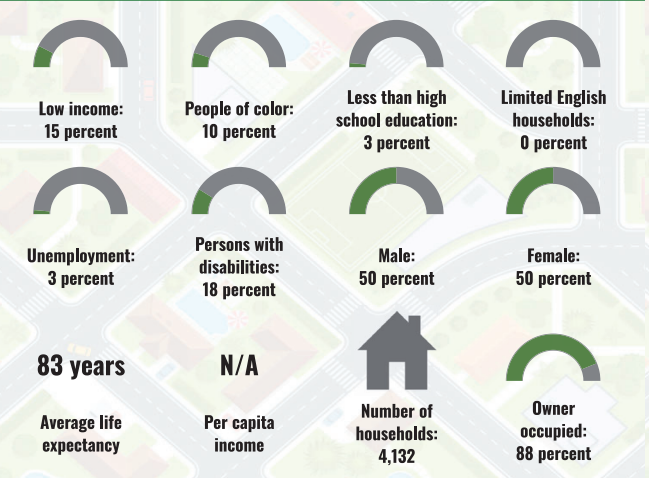
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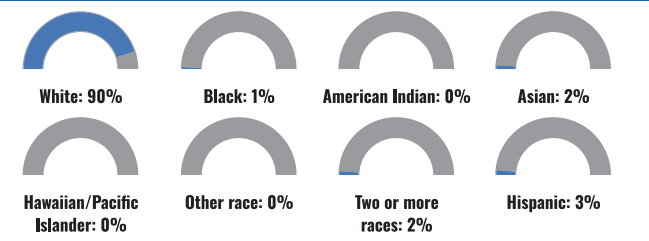
0 0.05 0.1 0.2 km

Esri, HERE, DeLorme, (c) OpenStreetMap contributors, and the GIS user community. Source: Esri, Mapbox, Earthstar Geographics, and the GIS User Community

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

| LANGUAGE | PERCENT |
|---------------------|---------|
| English | 96% |
| Spanish | 2% |
| Other Indo-European | 1% |
| Total Non-English | 4% |

Report for 5 miles Ring Centered at 48.009947,-122.523623

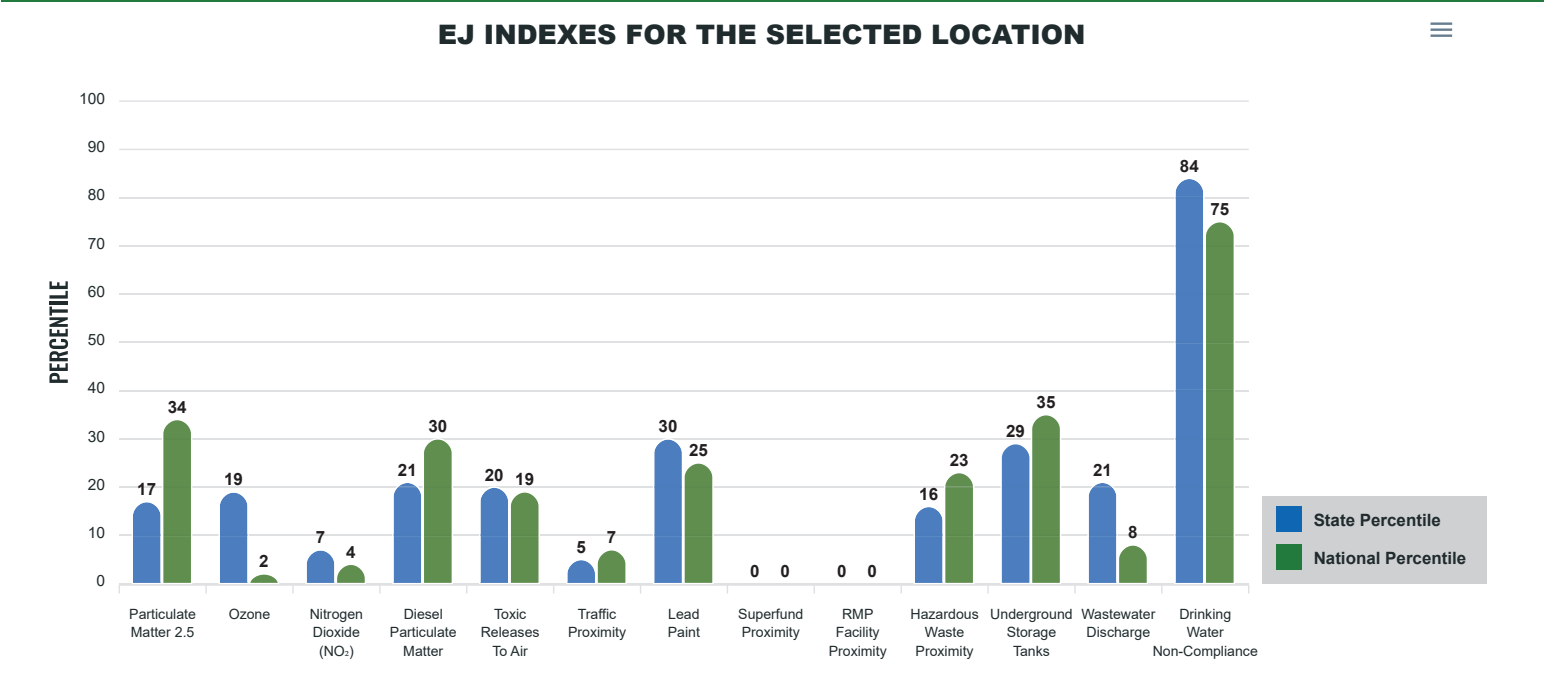
Report produced January 15, 2025 using EJScreen Version 2.3

Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

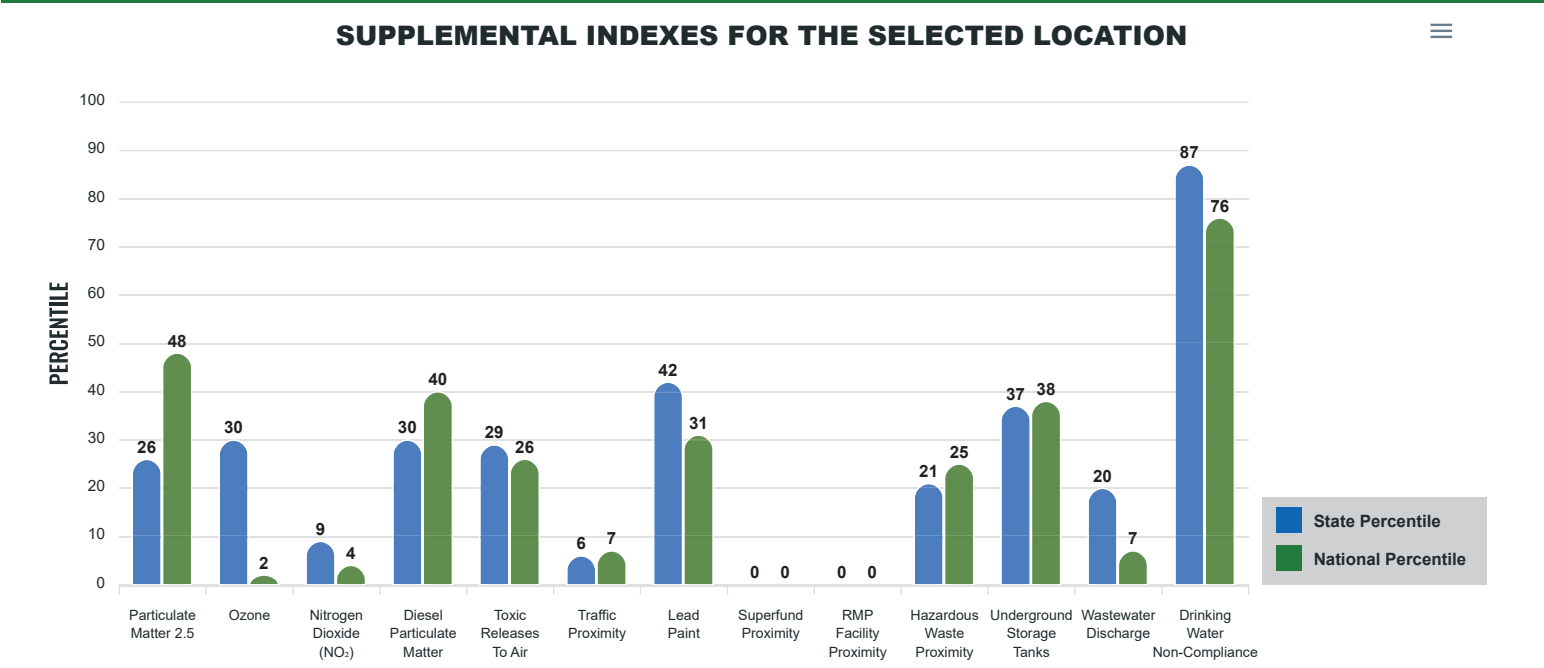
EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.



Report for 5 miles Ring Centered at 48.009947,-122.523623
Report produced January 15, 2025 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

| SELECTED VARIABLES | VALUE | STATE AVERAGE | PERCENTILE IN STATE | USA AVERAGE | PERCENTILE IN USA |
|---|--------|---------------|---------------------|-------------|-------------------|
| ENVIRONMENTAL BURDEN INDICATORS | | | | | |
| Particulate Matter 2.5 (µg/m³) | 8.32 | 9.51 | 23 | 8.45 | 56 |
| Ozone (ppb) | 50.6 | 51.8 | 28 | 61.8 | 2 |
| Nitrogen Dioxide (NO ₂) (ppbv) | 2.7 | 6.3 | 8 | 7.8 | 5 |
| Diesel Particulate Matter (µg/m³) | 0.141 | 0.256 | 30 | 0.191 | 44 |
| Toxic Releases to Air (toxicity-weighted concentration) | 200 | 1,800 | 34 | 4,600 | 32 |
| Traffic Proximity (daily traffic count/distance to road) | 32,000 | 1,200,000 | 7 | 1,700,000 | 9 |
| Lead Paint (% Pre-1960 Housing) | 0.1 | 0.23 | 44 | 0.3 | 36 |
| Superfund Proximity (site count/km distance) | 0 | 0.53 | 0 | 0.39 | 0 |
| RMP Facility Proximity (facility count/km distance) | 0 | 0.51 | 0 | 0.57 | 0 |
| Hazardous Waste Proximity (facility count/km distance) | 0.34 | 2.9 | 21 | 3.5 | 28 |
| Underground Storage Tanks (count/km²) | 0.62 | 6.1 | 40 | 3.6 | 46 |
| Wastewater Discharge (toxicity-weighted concentration/m distance) | 0.2 | 300 | 47 | 700000 | 16 |
| Drinking Water Non-Compliance (points) | 1.9 | 1 | 92 | 2.2 | 84 |
| SOCIOECONOMIC INDICATORS | | | | | |
| Demographic Index USA | 0.5 | N/A | N/A | 1.34 | 15 |
| Supplemental Demographic Index USA | 1.22 | N/A | N/A | 1.64 | 29 |
| Demographic Index State | 0.67 | 1.47 | 13 | N/A | N/A |
| Supplemental Demographic Index State | 1.08 | 1.37 | 36 | N/A | N/A |
| People of Color | 10% | 33% | 10 | 40% | 21 |
| Low Income | 15% | 23% | 38 | 30% | 27 |
| Unemployment Rate | 3% | 5% | 42 | 6% | 43 |
| Limited English Speaking Households | 0% | 4% | 50 | 5% | 56 |
| Less Than High School Education | 3% | 8% | 32 | 11% | 25 |
| Under Age 5 | 2% | 5% | 16 | 5% | 19 |
| Over Age 64 | 35% | 17% | 93 | 18% | 93 |

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

Sites reporting to EPA within defined area:

| | |
|--|----|
| Superfund | 0 |
| Hazardous Waste, Treatment, Storage, and Disposal Facilities | 1 |
| Water Dischargers | 10 |
| Air Pollution | 0 |
| Brownfields | 0 |
| Toxic Release Inventory | 0 |

Other community features within defined area:

| | |
|-------------------------|---|
| Schools | 0 |
| Hospitals | 0 |
| Places of Worship | 8 |

Other environmental data:

| | |
|--------------------------|-----|
| Air Non-attainment | No |
| Impaired Waters | Yes |

| | |
|--|-----|
| Selected location contains American Indian Reservation Lands* | No |
| Selected location contains a "Justice40 (CEJST)" disadvantaged community | No |
| Selected location contains an EPA IRA disadvantaged community | Yes |

Report for 5 miles Ring Centered at 48.009947,-122.523623
Report produced January 15, 2025 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

| HEALTH INDICATORS | | | | | |
|---------------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Low Life Expectancy | 16% | 18% | 22 | 20% | 16 |
| Heart Disease | 6.8 | 4.8 | 90 | 5.8 | 71 |
| Asthma | 10.3 | 10.9 | 24 | 10.3 | 52 |
| Cancer | 10.1 | 6.5 | 98 | 6.4 | 97 |
| Persons with Disabilities | 18.1% | 13.4% | 80 | 13.7% | 79 |

| CLIMATE INDICATORS | | | | | |
|--------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Flood Risk | 16% | 11% | 80 | 12% | 81 |
| Wildfire Risk | 0% | 12% | 0 | 14% | 0 |

| CRITICAL SERVICE GAPS | | | | | |
|------------------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Broadband Internet | 7% | 8% | 56 | 13% | 39 |
| Lack of Health Insurance | 4% | 6% | 35 | 9% | 28 |
| Housing Burden | No | N/A | N/A | N/A | N/A |
| Transportation Access Burden | Yes | N/A | N/A | N/A | N/A |
| Food Desert | No | N/A | N/A | N/A | N/A |

Report for 5 miles Ring Centered at 48.009947,-122.523623
Report produced January 15, 2025 using EJScreen Version 2.3

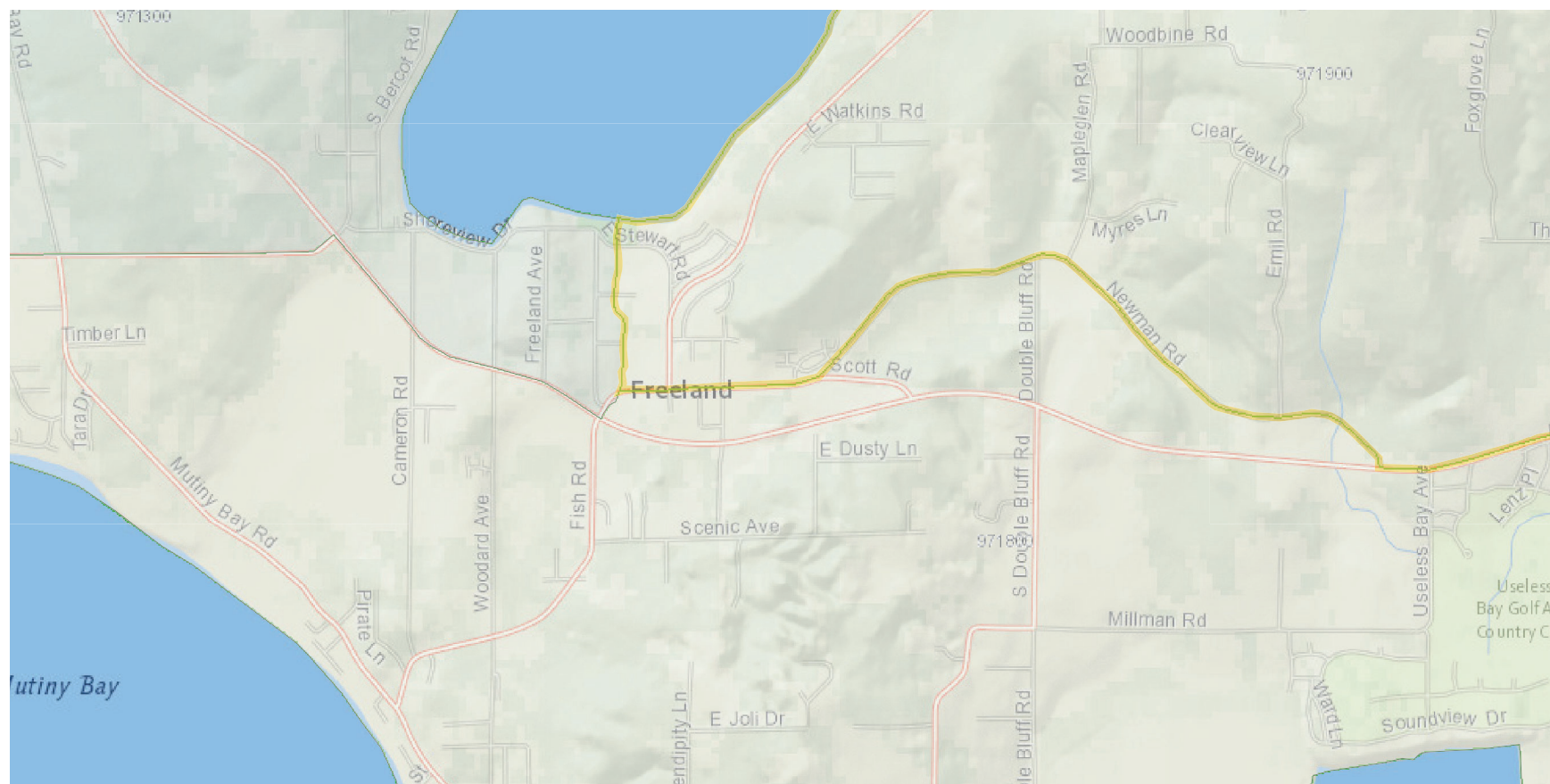


Selection: Environmental Health Disparities V 2.0 -> Environmental Effects

Date: 01/15/2025 at 4:25 PM

Lead Risk From Housing (%), Proximity to Hazardous Waste Treatment Storage and Disposal Facilities (TSDFs), Proximity to National Priorities List Facilities (Superfund Sites), Proximity to Risk Management Plan (RMP) Facilities, Wastewater Discharge

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



0.4mi

Legend

-  Airport Runways
-  Care Facilities - Adult Family Homes
-  Care Facilities - Nursing Homes
-  City Limits
-  Climate Projections ~2050
-  County Boundaries
-  DCYF Licensed Childcare Centers
-  Dry Cleaners (Current and Former)
-  Electric Utilities - Investor
-  Electric Utilities - Public
-  Farmworkers Housing
-  Former Orchard Lands
-  Hazardous Waste Facilities
-  Historical Redlining (HOLC)
-  Hospitals
-  Legislative Districts
-  Mortgage Discrimination
-  National Flood Hazard Layer
-  Prisons
-  Railroads
-  Rural-Urban Classification
-  Superfund Sites
-  Arsenic Tacoma Smelter Plume
-  Top Student Home Languages
-  Tribal Boundaries
-  Tribal Health Services
-  WA Ecology Cleanup Sites
 -  Awaiting cleanup
 -  Cleanup started
 -  Monitoring cleanup progress
 -  Cleanup complete
-  Wastewater Dischargers (EPA)
-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)


Selection: Environmental Health Disparities V 2.0 -> Socioeconomic Factors
Date: 01/15/2025 at 4:23 PM

No High School Diploma (%), People of Color (Race/Ethnicity), Population Living in Poverty <=185% of Federal Poverty Level (%), Primary Language other than English, Transportation Expense, Unaffordable Housing (>30% of Income), Unemployed (%)

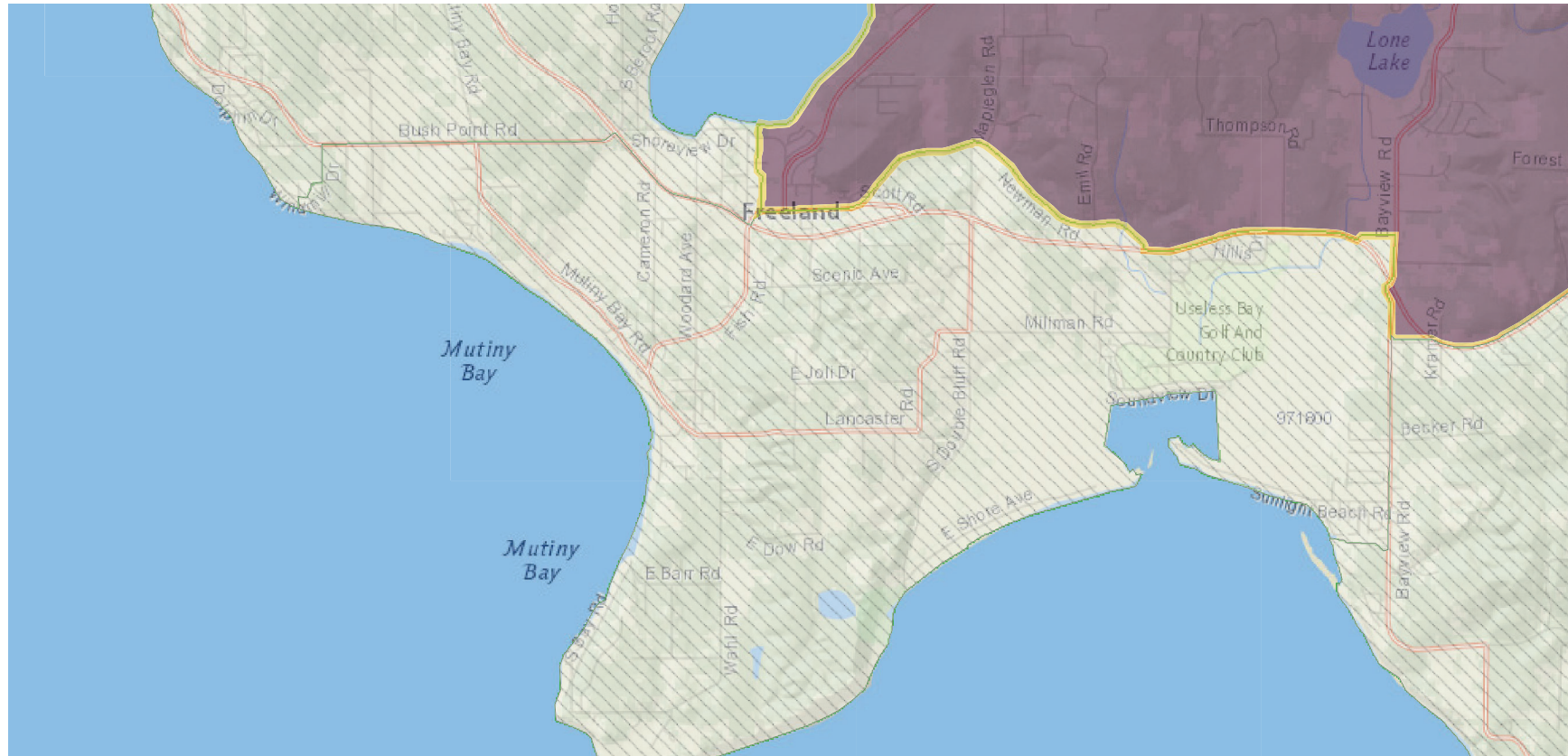
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



0.4mi

Legend

-  Airport Runways
-  Care Facilities - Adult Family Homes
-  Care Facilities - Nursing Homes
-  City Limits
-  Climate Projections ~2050
-  County Boundaries
-  DCYF Licensed Childcare Centers
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-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)

**Selection:****Date: 01/15/2025 at 4:27 PM****Environmental Health Disparities V 2.0 -> Sensitive Populations -> Low Birth Weight - Combined (%)**
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**


1mi

Legend

-  Airport Runways
-  Care Facilities - Adult Family Homes
-  Care Facilities - Nursing Homes
-  City Limits
-  Climate Projections ~2050
-  County Boundaries
-  DCYF Licensed Childcare Centers
-  Dry Cleaners (Current and Former)
-  Electric Utilities - Investor
-  Electric Utilities - Public
-  Farmworkers Housing
-  Former Orchard Lands
-  Hazardous Waste Facilities
-  Historical Redlining (HOLC)
-  Hospitals
-  Legislative Districts
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 -  Cleanup started
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 -  Cleanup complete
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-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)

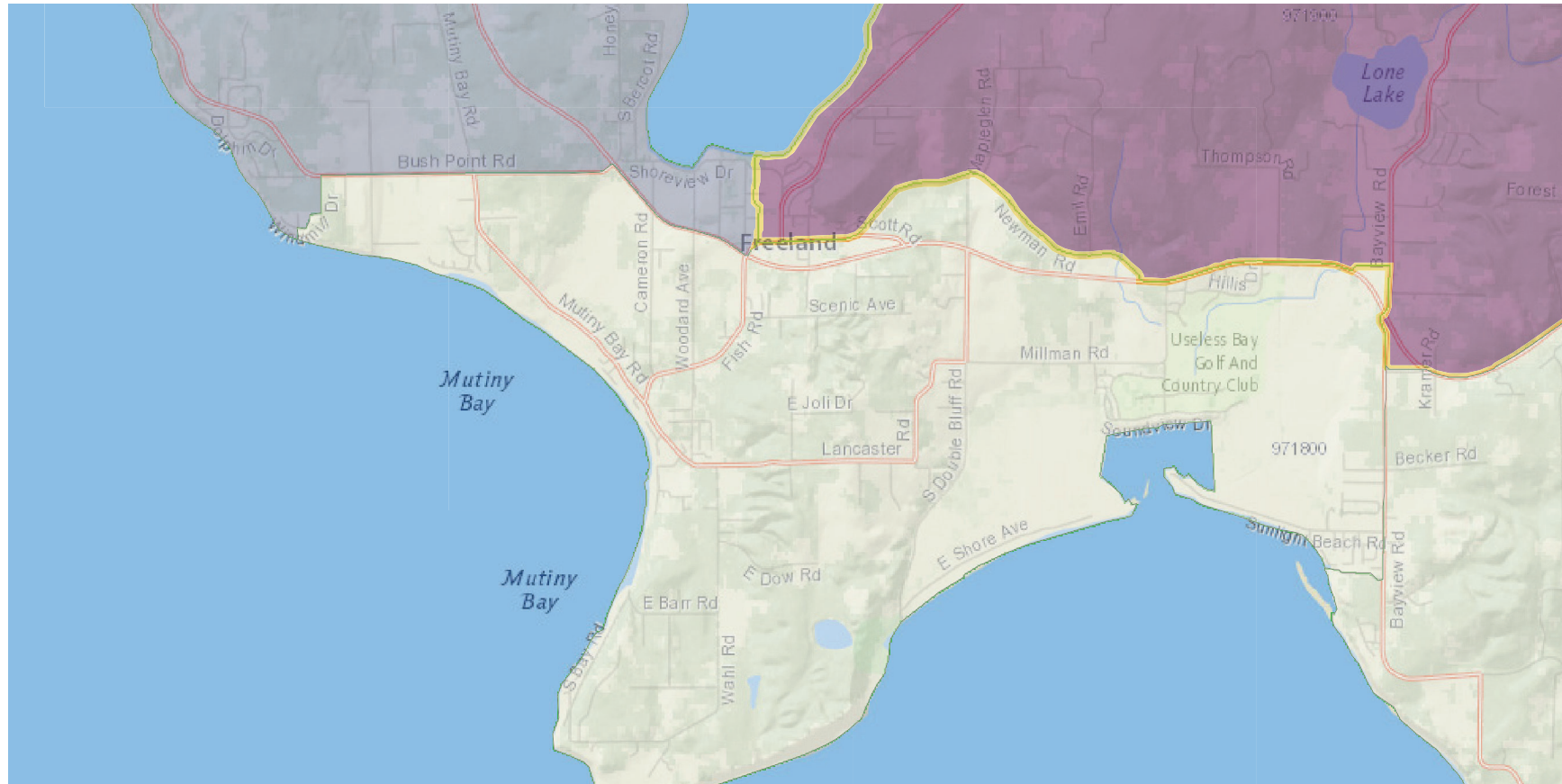


Selection: Environmental Health Disparities V 2.0 -> Sensitive Populations

Date: 01/15/2025 at 4:27 PM

Death from Cardiovascular Disease, Low Birth Weight - Combined (%)

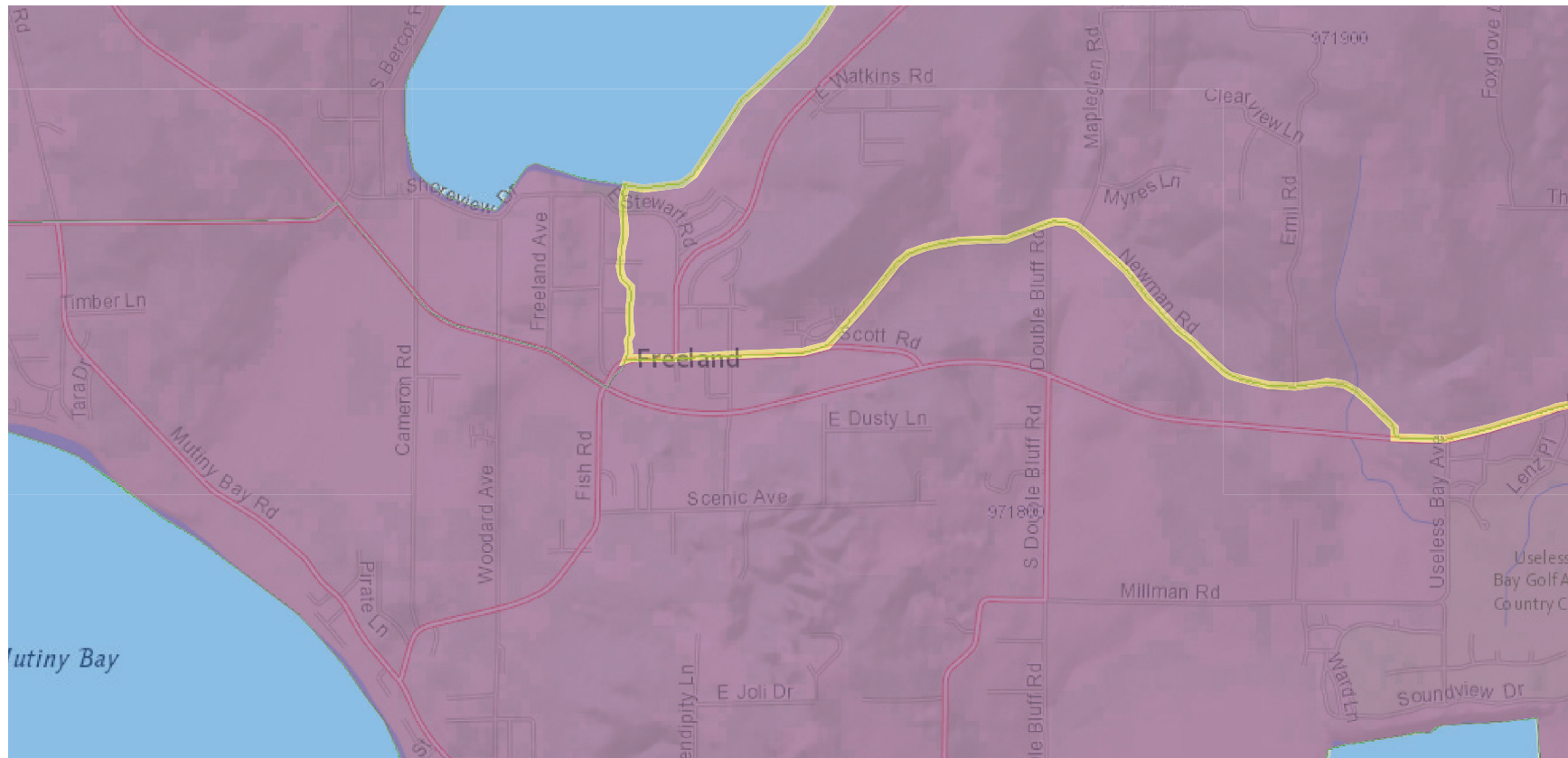
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



1mi

Legend

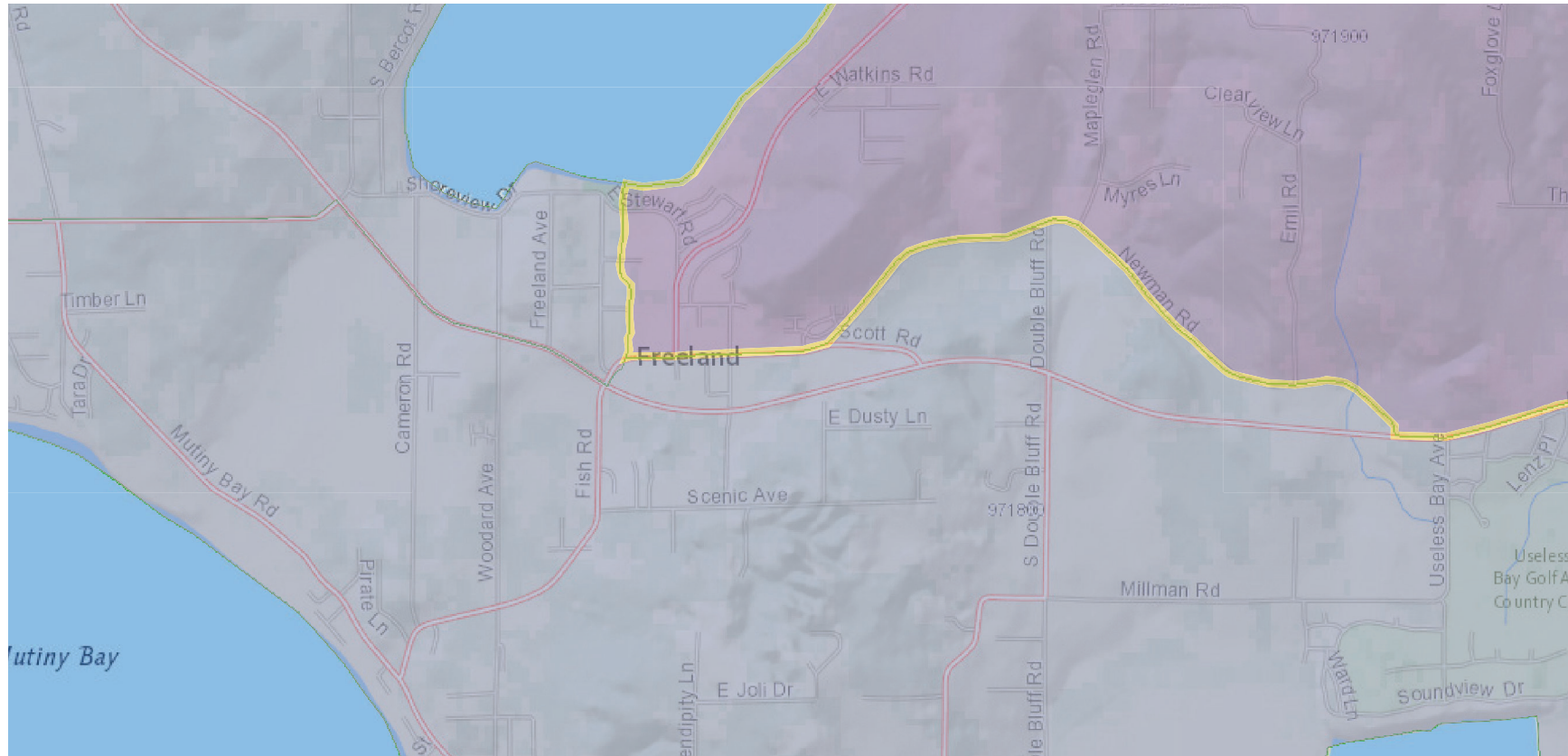
-  Airport Runways
-  Care Facilities - Adult Family Homes
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-  City Limits
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-  County Boundaries
-  DCYF Licensed Childcare Centers
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-  Electric Utilities - Investor
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-  Farmworkers Housing
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 -  Awaiting cleanup
 -  Cleanup started
 -  Monitoring cleanup progress
 -  Cleanup complete
-  Wastewater Dischargers (EPA)
-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)
 -  Smoke score

**Selection:****Date: 01/15/2025 at 4:26 PM****Environmental Health Disparities V 2.0 -> Socioeconomic Factors -> Transportation Expense**
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**


0.4mi

Legend

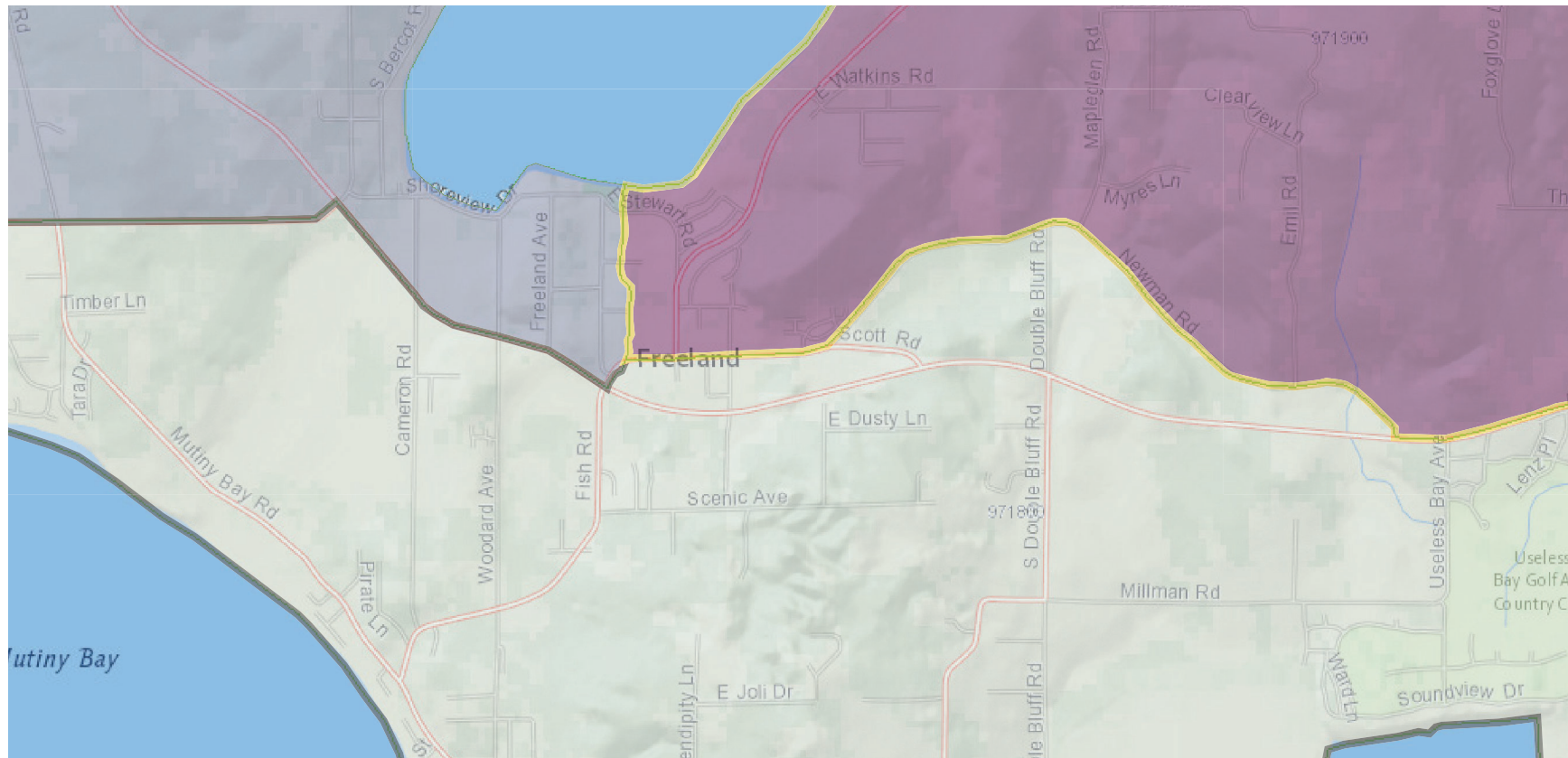
-  Airport Runways
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-  City Limits
-  Climate Projections ~2050
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-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)

**Selection:****Date: 01/15/2025 at 4:26 PM****Environmental Health Disparities V 2.0 -> Socioeconomic Factors -> Unaffordable Housing (>30% of Income)**
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**


0.4mi

Legend

-  Airport Runways
-  Care Facilities - Adult Family Homes
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-  Wildfire Smoke Cumulative Score (2016-2022)

**Selection:****Date: 01/15/2025 at 4:27 PM****Environmental Health Disparities V 2.0 -> Socioeconomic Factors -> Unemployed (%)**
Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**


0.4mi

Legend

-  Airport Runways
-  Care Facilities - Adult Family Homes
-  Care Facilities - Nursing Homes
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-  Climate Projections ~2050
-  County Boundaries
-  DCYF Licensed Childcare Centers
-  Dry Cleaners (Current and Former)
-  Electric Utilities - Investor
-  Electric Utilities - Public
-  Farmworkers Housing
-  Former Orchard Lands
-  Hazardous Waste Facilities
-  Historical Redlining (HOLC)
-  Hospitals
-  Legislative Districts
-  Mortgage Discrimination
-  National Flood Hazard Layer
-  Prisons
-  Railroads
-  Rural-Urban Classification
-  Superfund Sites
-  Arsenic Tacoma Smelter Plume
-  Top Student Home Languages
-  Tribal Boundaries
-  Tribal Health Services
-  WA Ecology Cleanup Sites
 -  Awaiting cleanup
 -  Cleanup started
 -  Monitoring cleanup progress
 -  Cleanup complete
-  Wastewater Dischargers (EPA)
-  Watershed Boundaries
-  Wildfire Smoke Cumulative Score (2016-2022)
 -  Smoke score

APPENDIX B

Soil Boring Logs and Well Development Details

TABLE B-1
WELL DEVELOPMENT DETAILS
WHIDBEY MARINE & AUTO SITE
FREELAND, WASHINGTON

| Monitoring Well | Date Developed | Method of Development | Pre-Development | | | | Post-Development | | | Total Volume Purged (gal) |
|-----------------|----------------|-----------------------|---------------------|---------------------------|---------------------|---|---------------------|---------------------------|--|---------------------------|
| | | | Depth to Water (ft) | Depth to Well Bottom (ft) | Casing Volume (gal) | Observations | Depth to water (ft) | Depth to Well Bottom (ft) | Observations | |
| MW-1S | 1/26/2024 | Submersible Pump | 50.82 | 65.38 | 2.39 | | 50.78 | 66.18 | Clear | 45 |
| MW-2S | 9/25/2023 | Submersible Pump | 53.85 | 56.58 | 0.45 | | 54 | 56.55 | Purged dry three times, clear | 0.25 |
| MW-3S | 1/24/2024 | Submersible Pump | -- | -- | -- | | 52.23 | 60.54 | Clear | 18 |
| MW-4S | 9/25/2023 | Submersible Pump | 53.40 | 55.6 | 0.35 | | 53.1 | 56.84 | | 0.5 |
| MW-5S | -- | -- | | | 0.00 | | | | | |
| MW-6S | 9/25/2023 | Submersible Pump | 58.05 | 61.4 | 0.55 | Strong odor, purged dry after 0.4 gallons | 60.62 | 58 | Purged dry five times, water slightly cloudy | 2 |
| MW-7S | 9/25/2023 | Submersible Pump | 57.85 | 59.25 | 0.23 | No water measured while pumping, unable to purge water | 57.05 | 58.68 | | 0 |
| MW-8S | 9/25/2023 | Submersible Pump | 54.84 | 60.15 | 0.87 | | 60.45 | 54.8 | slightly cloudy | 4.5 |
| MW-9D | 9/25/2023 | Hydrolift Pump | 102.05 | 109.47 | 1.22 | Gray sand, petroleum-like odor | 102.18 | 109.7 | Clear, petroleum-like odor | 8 |
| MW-10D | 1/26/2024 | Submersible Pump | 100.64 | 111.58 | 1.79 | | 100.87 | 111.72 | Clear | 20 |
| MW-11D | 1/26/2024 | Submersible Pump | 101.43 | 112.28 | 1.78 | | 101.68 | 111.98 | Clear | 18 |
| MW-12D | 9/26/2023 | Submersible Pump | 101.56 | 111.23 | 1.59 | Water was black for the first gallon, petroleum-like odor | 101.64 | 111.25 | Clear, petroleum-like odor | 3 |
| MW-13D | 9/25/2023 | Hydrolift Pump | 103.74 | 110.63 | 1.13 | Cloudy, petroleum-like odor | 103.87 | 113.81 | Clear, petroleum-like odor | 5 |
| MW-14D | 9/25/2023 | Hydrolift Pump | 103.71 | 110.95 | 1.19 | Cloudy, light brown sand | 103.81 | 111.13 | Clear | 20 |
| MW-15D | 9/26/2023 | Hydrolift Pump | 104.34 | 112.75 | 1.38 | Cloudy, light brown sand | 112.98 | 113.75 | Clear | 20 |
| MW-16D | 9/26/2023 | Hydrolift Pump | 104.57 | 111.25 | 1.10 | Cloudy, light brown sand | 111.75 | 112.25 | Clear | 20 |
| MW-17D | 9/25/2023 | Hydrolift Pump | 102.93 | 117.67 | 2.42 | Cloudy, gray sand, slight odor | 117.19 | 117.67 | Clear | 8 |
| MW-18D | 9/25/2023 | Submersible Pump | 103.16 | 116.65 | 2.21 | Clear | 116.65 | 116.80 | Clear | 3 |
| MW-19D | 1/25/2024 | Submersible Pump | 104.20 | 112.3 | 1.33 | Slightly cloudy, light brown color | 103.56 | 113.30 | Clear | 25 |
| MW-20D | 1/24/2024 | Submersible Pump | 103.75 | 111.4 | 1.25 | Cloudy, grayish brown sand | 104.11 | 112.35 | Clear | 12 |
| MW-21D | 1/25/2024 | Submersible Pump | 102.00 | 110.4 | 1.38 | Cloudy, light brown sand | 101.84 | 110.30 | Clear | 10 |
| MW-22D | 1/25/2024 | Submersible Pump | 106.50 | 114.4 | 1.30 | Cloudy, grayish brown sand | 104.9 | 114.20 | Clear | 10 |
| MW-23D | 1/25/2024 | Submersible Pump | 103.50 | 111.4 | 1.30 | Cloudy, grayish brown sand, petroleum-like odor | 104.52 | 113.11 | Clear, petroleum-like odor | 15 |

Notes:
Depth to water and well bottom measured from the top of casing
-- = Not Available or Not Applicable
ft = feet
gal = gallons

Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.

Relative Density/Consistency
























Soil density/consistency in borings is related primarily to the standard penetration resistance (N). Soil density/consistency in test pits and probes is estimated based on visual observation and is presented parenthetically on the logs.

| SAND or GRAVEL Relative Density | N (Blows/Foot) | SILT or CLAY Consistency | N (Blows/Foot) |
|------------------------------------|-------------------|-----------------------------|-------------------|
| Very loose | 0 to 4 | Very soft | 0 to 1 |
| Loose | 5 to 10 | Soft | 2 to 4 |
| Medium dense | 11 to 30 | Medium stiff | 5 to 8 |
| Dense | 31 to 50 | Stiff | 9 to 15 |
| Very dense | >50 | Very stiff | 16 to 30 |
| | | Hard | >30 |

Moisture

| | |
|-------|---|
| Dry | Absence of moisture, dusty, dry to the touch |
| Moist | Damp but no visible water |
| Wet | Visible free water, usually soil is below water table |

USCS Soil Classification Chart (ASTM D 2487)

| Major Divisions | | | Symbols | | Typical Descriptions |
|---|---|---|---|---|--|
| | | | Graph | USCS | |
| More than 50% of Material Retained on No. 200 Sieve | Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve | Clean Gravels (<i><5% fines</i>) |  | GW | Well-Graded Gravel; Well-Graded Gravel with Sand |
| | | |  | GP | Poorly Graded Gravel; Poorly Graded Gravel with Sand |
| | | Gravels (<i>5-12% fines</i>) |  | GW-GM | Well-Graded Gravel with Silt; Well-Graded Gravel with Silt and Sand |
| | | |  | GW-GC | Well-Graded Gravel with Clay; Well-Graded Gravel with Clay and Sand |
| | | |  | GP-GM | Poorly Graded Gravel with Silt; Poorly Graded Gravel with Silt and Sand |
| | | |  | GP-GC | Poorly Graded Gravel with Clay; Poorly Graded Gravel with Clay and Sand |
| | | Gravels with Fines (<i>>12% fines</i>) |  | GM | Silty Gravel; Silty Gravel with Sand |
| | | |  | GC | Clayey Gravel; Clayey Gravel with Sand |
| | Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve | Sands with few Fines (<i><5% fines</i>) |  | SW | Well-Graded Sand; Well-Graded Sand with Gravel |
| | | |  | SP | Poorly Graded Sand; Poorly Graded Sand with Gravel |
| | | Sands (<i>5-12% fines</i>) |  | SW-SM | Well-Graded Sand with Silt Well-Graded Sand with Silt and Gravel |
| | | |  | SW-SC | Well-Graded Sand with Clay; Well-Graded Sand with Clay and Gravel |
| | | |  | SP-SM | Poorly Graded Sand with Silt; Poorly Graded Sand with Silt and Gravel |
| | | |  | SP-SC | Poorly Graded Sand with Clay; Poorly Graded Sand with Clay and Gravel |
| | | Sands with Fines (<i>>12% fines</i>) |  | SM | Silty Sand; Silty Sand with Gravel |
| | | |  | SC | Clayey Sand; Clayey Sand with Gravel |
| Fine Grained Soils More than 50% of Material Passing No. 200 Sieve | Silts |  | ML | Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt | |
| | |  | MH | Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt | |
| | Silty Clay (<i>based on Atterberg Limits</i>) |  | CL-ML | Silty Clay; Silty Clay with Sand or Gravel; Gravelly or Sandy Silty Clay | |
| | Clays |  | CL | Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay | |
| | |  | CH | Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay | |
| | Organics |  | OL/OH | Organic Soil; Organic Soil with Sand or Gravel; Sandy or Gravelly Organic Soil | |
| Highly Organic (<i>>50% organic material</i>) | |  | PT | Peat - Decomposing Vegetation - Fibrous to Amorphous Texture | |

Minor Constituents

Estimated Percentage

| | |
|-------------------|---------|
| Sand, Gravel | |
| Trace | <5 |
| Few | 5 - 15 |
| Cobbles, Boulders | |
| Trace | <5 |
| Few | 5 - 10 |
| Little | 15 - 25 |
| Some | 30 - 45 |

Soil Test Symbols

| | |
|----|-------------------------------|
| %F | Percent Passing No. 200 Sieve |
| AL | Atterberg Limits (%) |
| | Liquid Limit (LL) |
| | Water Content (WC) |
| | Plastic Limit (PL) |

| | |
|--------|---|
| CA | Chemical Analysis |
| CAUC | Consolidated Anisotropic Undrained Compression |
| CAUE | Consolidated Anisotropic Undrained Extension |
| CBR | California Bearing Ratio |
| CIDC | Consolidated Drained Isotropic Triaxial Compression |
| CIUC | Consolidated Isotropic Undrained Compression |
| CK0DC | Consolidated Drained k0 Triaxial Compression |
| CK0DSS | Consolidated k0 Undrained Direct Simple Shear |
| CK0UC | Consolidated k0 Undrained Compression |
| CK0UE | Consolidated k0 Undrained Extension |
| CRSCN | Constant Rate of Strain Consolidation |
| DS | Direct Shear |
| DSS | Direct Simple Shear |
| DT | In Situ Density |
| GS | Grain Size Classification |
| HYD | Hydrometer |
| ILCN | Incremental Load Consolidation |
| K0CN | k0 Consolidation |
| kc | Constant Head Permeability |
| kf | Falling Head Permeability |
| MD | Moisture Density Relationship |
| OC | Organic Content |
| OT | Tests by Others |
| P | Pressuremeter |
| PID | Photoionization Detector Reading |
| PP | Pocket Penetrometer |
| SG | Specific Gravity |
| TRS | Torsional Ring Shear |
| TV | Torvane |
| UC | Unconfined Compression |
| UUC | Unconsolidated Undrained Triaxial Compression |
| VS | Vane Shear |
| WC | Water Content (%) |

Groundwater Indicators

| | |
|---|--|
| ▽ | Groundwater Level on Date or At Time of Drilling (ATD) |
| ▽ | Groundwater Level on Date Measured in Piezometer |
| ○ | Groundwater Seepage (Test Pits) |

Sample Symbols

| | | | | | |
|---|-----------------------------|---|---------------------|---|------------|
| ☒ | 1.5" I.D. Split Spoon | ■ | Rock Core Run | ☒ | Grab |
| ☒ | 3.0" I.D. Split Spoon | ■ | Sonic Core | ☒ | Cuttings |
| ☒ | Modified California Sampler | ☒ | Thin-walled Sampler | ☒ | Push Probe |

Well Symbols

| | |
|----------------------------|---------------------------|
| Monument | Signal Cable |
| Surface Seal | Extensometer Sensor (EXT) |
| Bentonite Seal | Extensometer |
| Bentonite-Cement | Anchor |
| Well Casing | Vibrating Wire |
| Sand Pack | Piezometer (VP) |
| Well Tip or Slotted Screen | |
| Slough | |

Contractor/Crew: Anderson Environmental Contracting, LLC / John

Rig Model/Type: TSi 150CC / Track-mounted drill rig

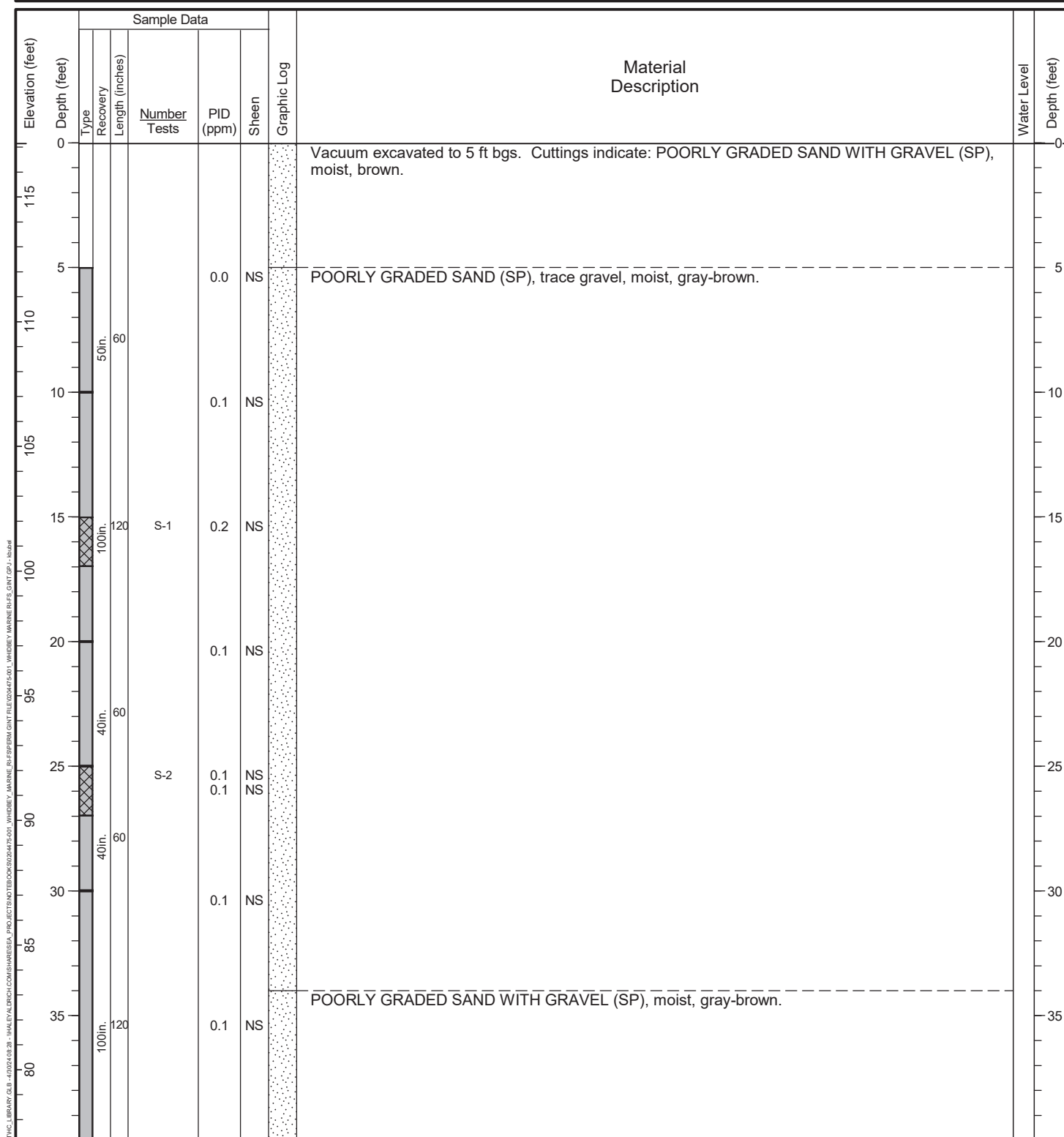
Hole Diameter: 8 inches

Well Casing Diameter: NA

Total Depth: 110.0 feet

Depth to Groundwater: 50 feet

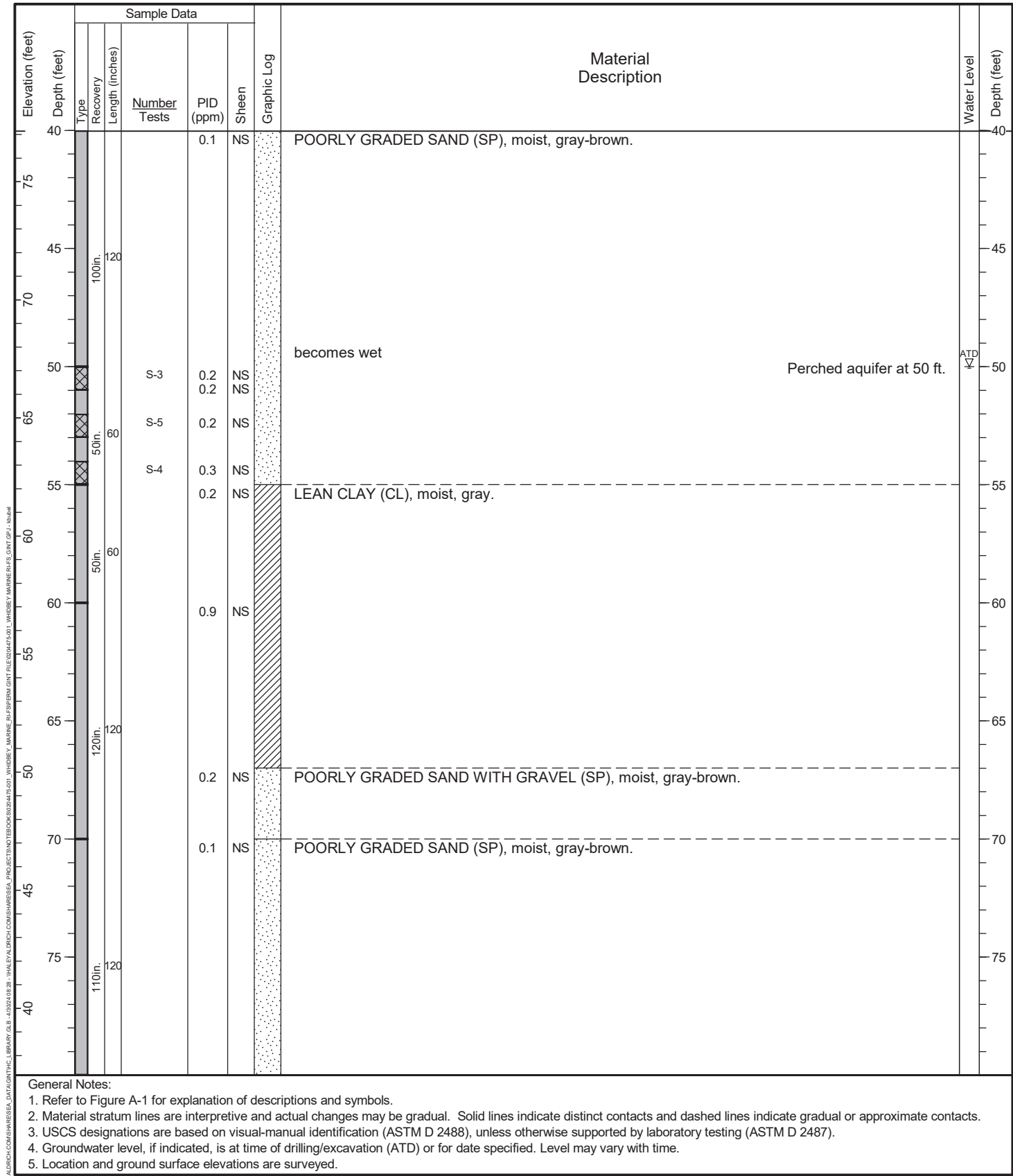
Comments: Grab groundwater samples collected from 52 to 57 ft below ground surface.



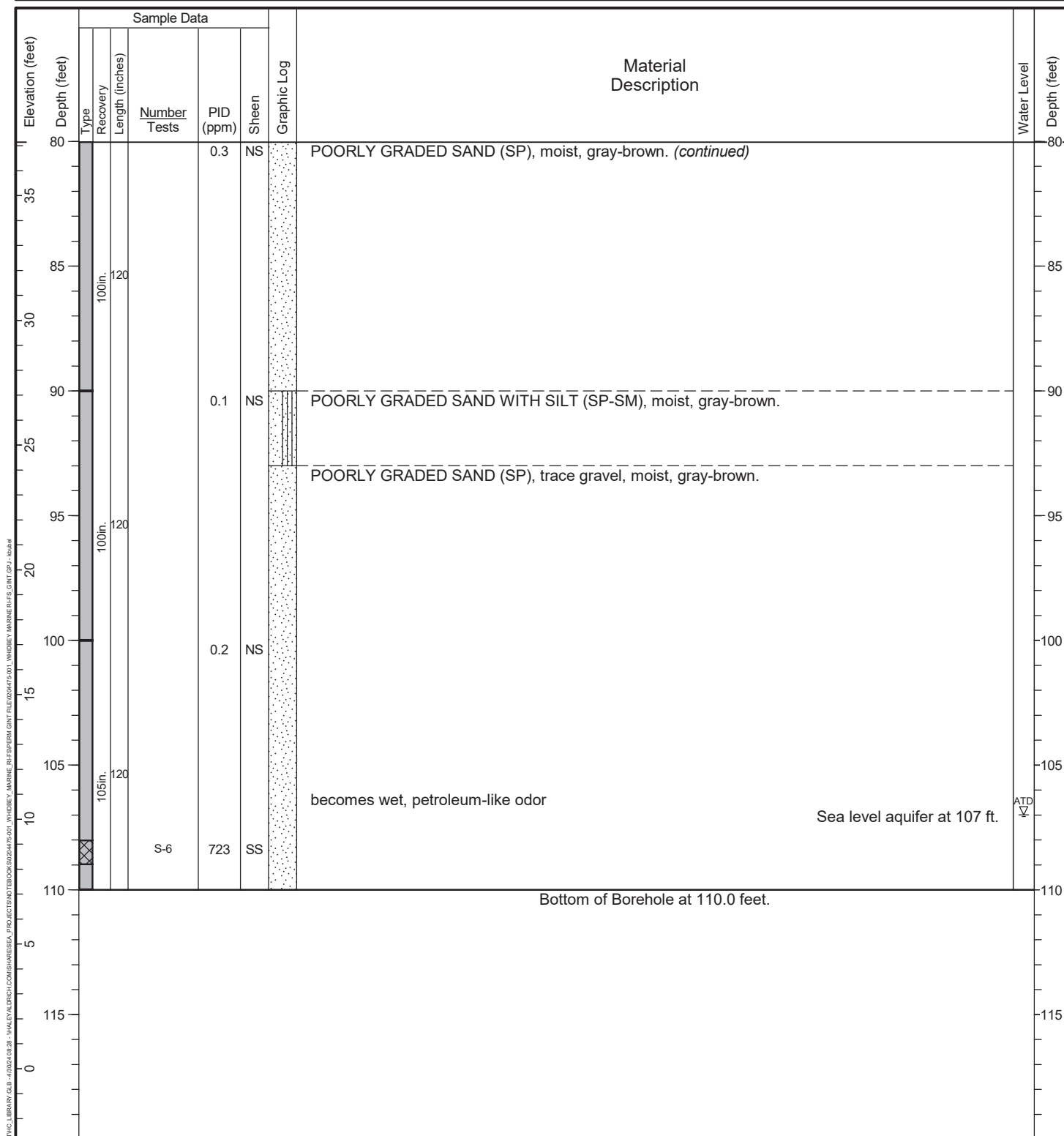
General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/26/2024 | Date Completed: 01/26/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,858.27 E: 1,226,781.59 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 117.17 feet (NAVD 88) | Total Depth: 110.0 feet | Depth to Groundwater: 50 feet |
| Comments: Grab groundwater samples collected from 52 to 57 ft below ground surface. | | |



Date Started: 01/26/2024 Date Completed: 01/26/2024 Contractor/Crew: Anderson Environmental Contracting, LLC / John
Logged by: Z. Stephens Checked by: H. Good Rig Model/Type: TSi 150CC / Track-mounted drill rig
Location: N: 372,858.27 E: 1,226,781.59 (WA State Plane N, NAD 83, ft.) Hole Diameter: 8 inches Well Casing Diameter: NA
Ground Surface Elevation: 117.17 feet (NAVD 88) Total Depth: 110.0 feet Depth to Groundwater: 50 feet
Comments: Grab groundwater samples collected from 52 to 57 ft below ground surface.



General Notes:

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3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

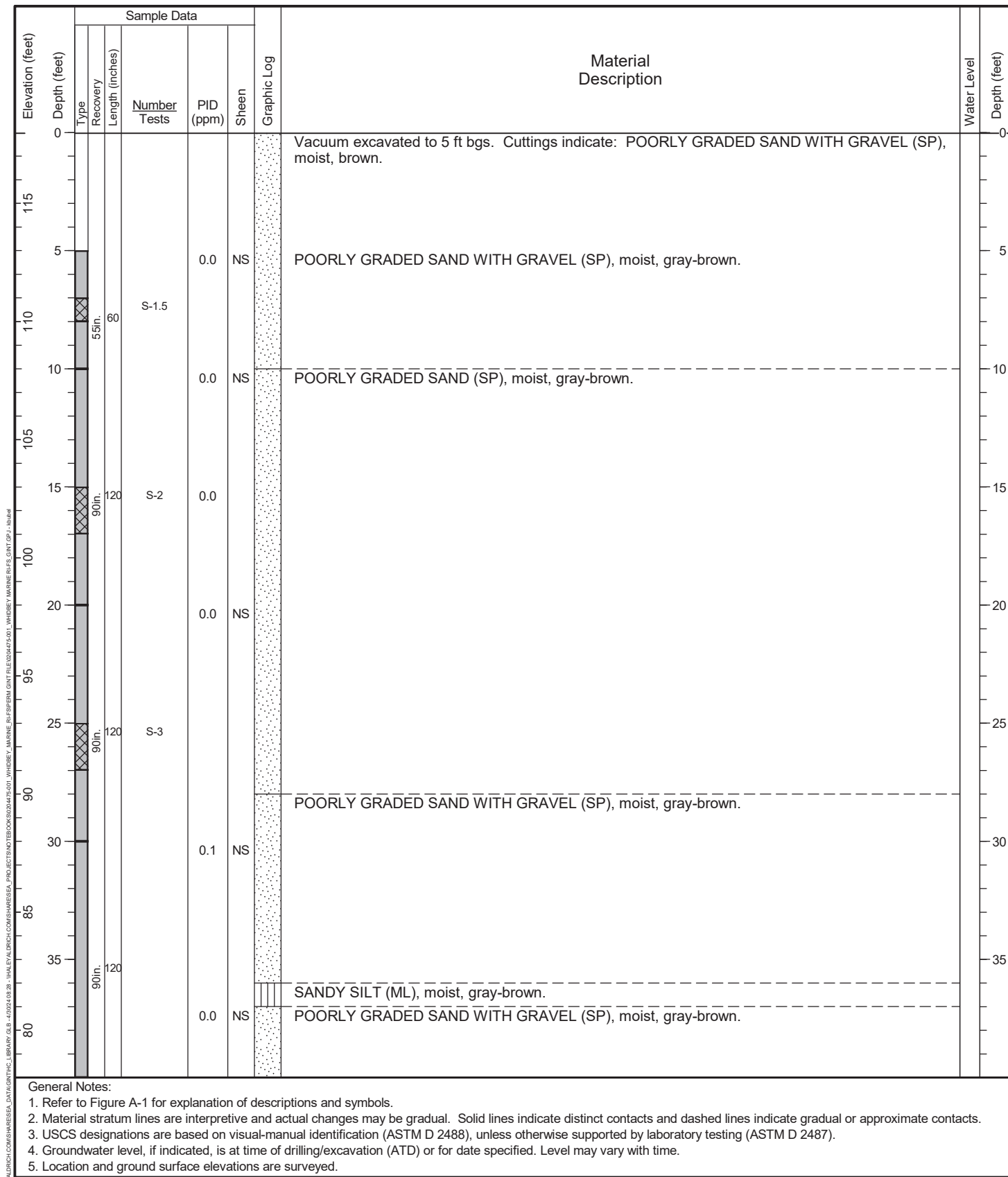


Project: Whidbey Marine RI-FS
Location: Puget Sound, Washington
Project No.: 0204475-001

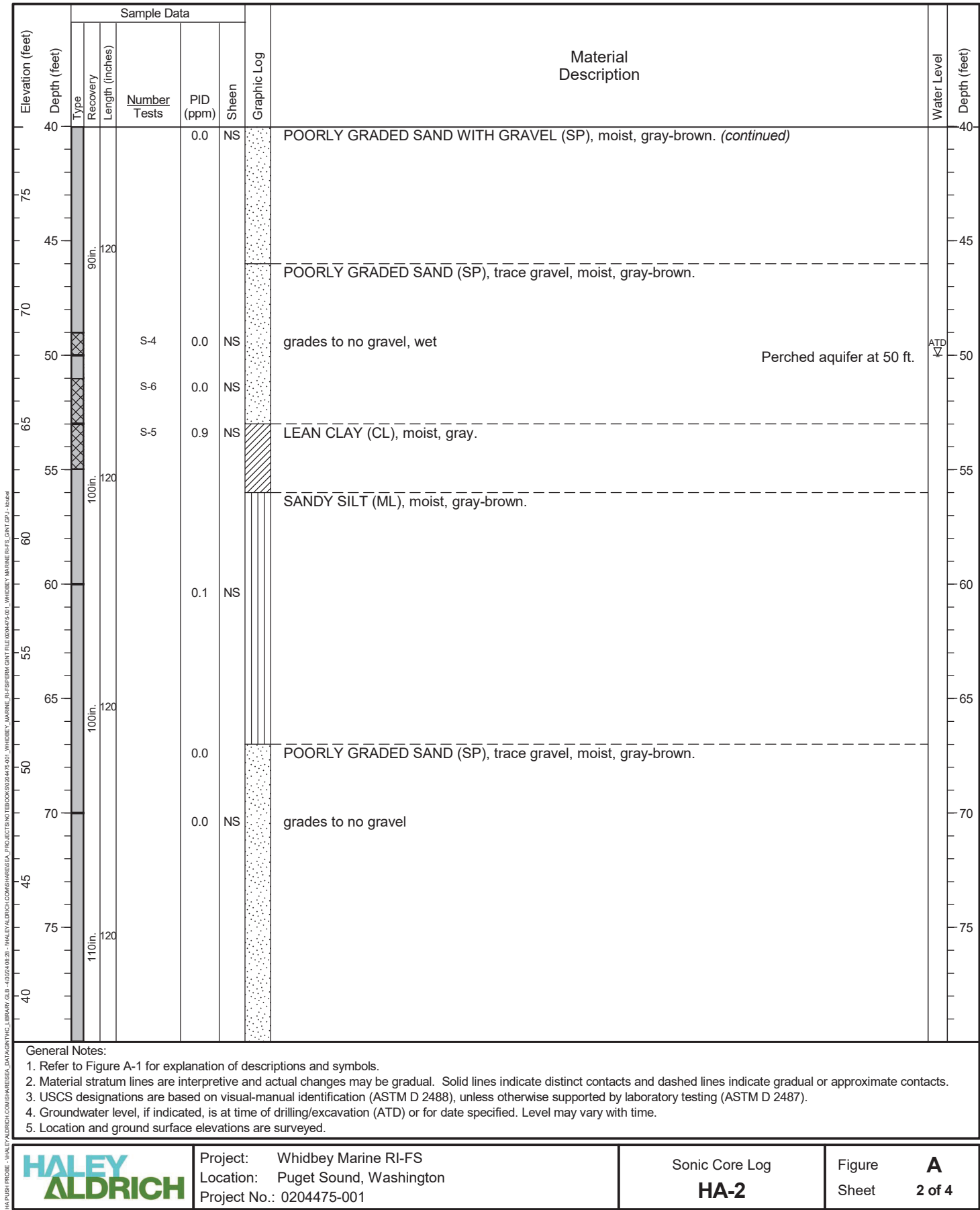
Sonic Core Log
HA-1

Figure **A**
Sheet **3 of 3**

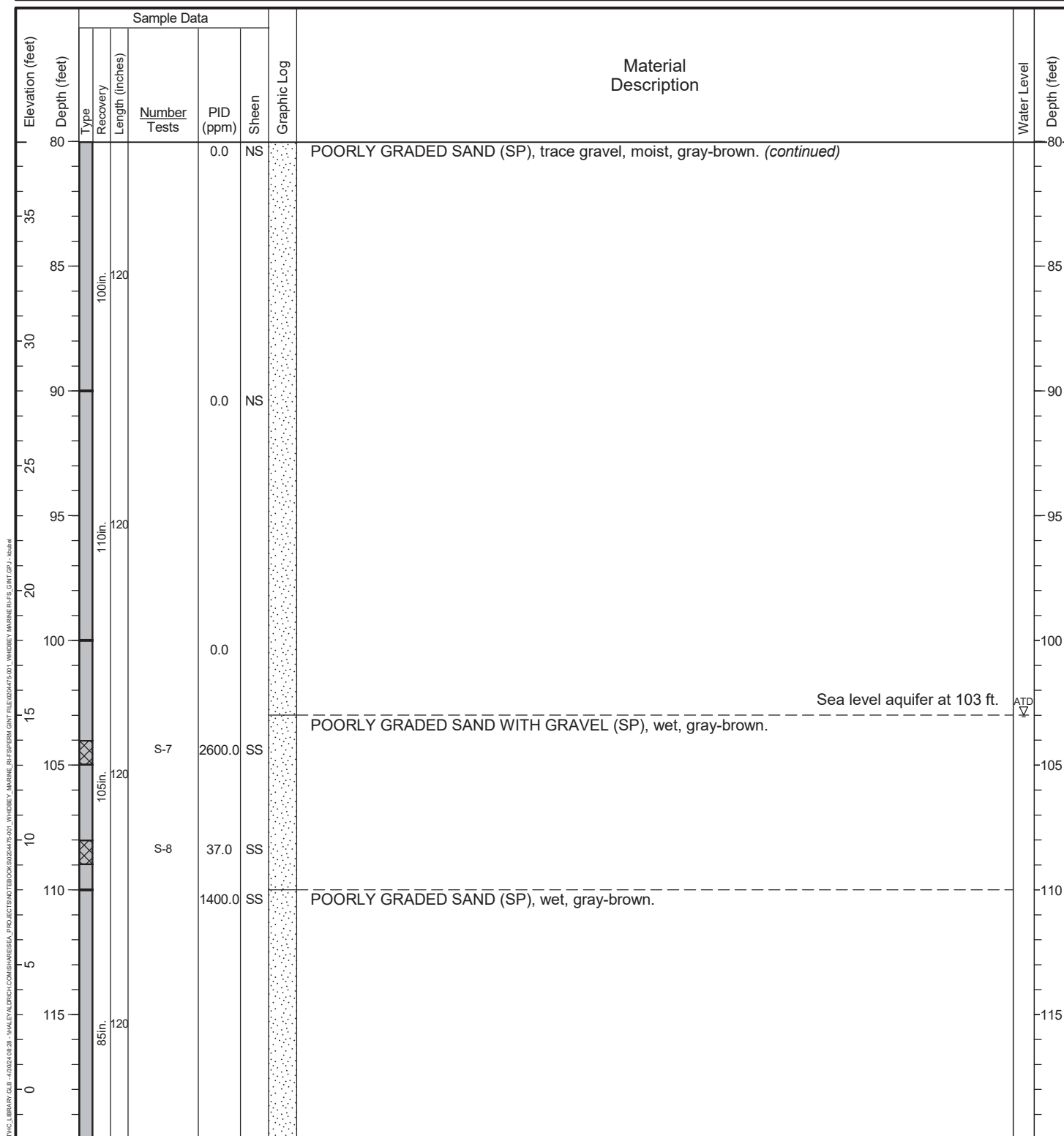
| | | |
|---|----------------------------|---|
| Date Started: 01/24/2024 | Date Completed: 01/25/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,895.30 E: 1,226,694.40 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 118.00 feet (NAVD 88) | Total Depth: 150.0 feet | Depth to Groundwater: 50 feet |
| Comments: Grab groundwater samples collected from 50 to 55 ft below ground surface. | | |



| | | |
|---|----------------------------|---|
| Date Started: 01/24/2024 | Date Completed: 01/25/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,895.30 E: 1,226,694.40 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 118.00 feet (NAVD 88) | Total Depth: 150.0 feet | Depth to Groundwater: 50 feet |
| Comments: Grab groundwater samples collected from 50 to 55 ft below ground surface. | | |



Date Started: 01/24/2024 Date Completed: 01/25/2024 Contractor/Crew: Anderson Environmental Contracting, LLC / John
Logged by: Z. Stephens Checked by: H. Good Rig Model/Type: TSi 150CC / Track-mounted drill rig
Location: N: 372,895.30 E: 1,226,694.40 (WA State Plane N, NAD 83, ft.) Hole Diameter: 8 inches Well Casing Diameter: NA
Ground Surface Elevation: 118.00 feet (NAVD 88) Total Depth: 150.0 feet Depth to Groundwater: 50 feet
Comments: Grab groundwater samples collected from 50 to 55 ft below ground surface.



General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

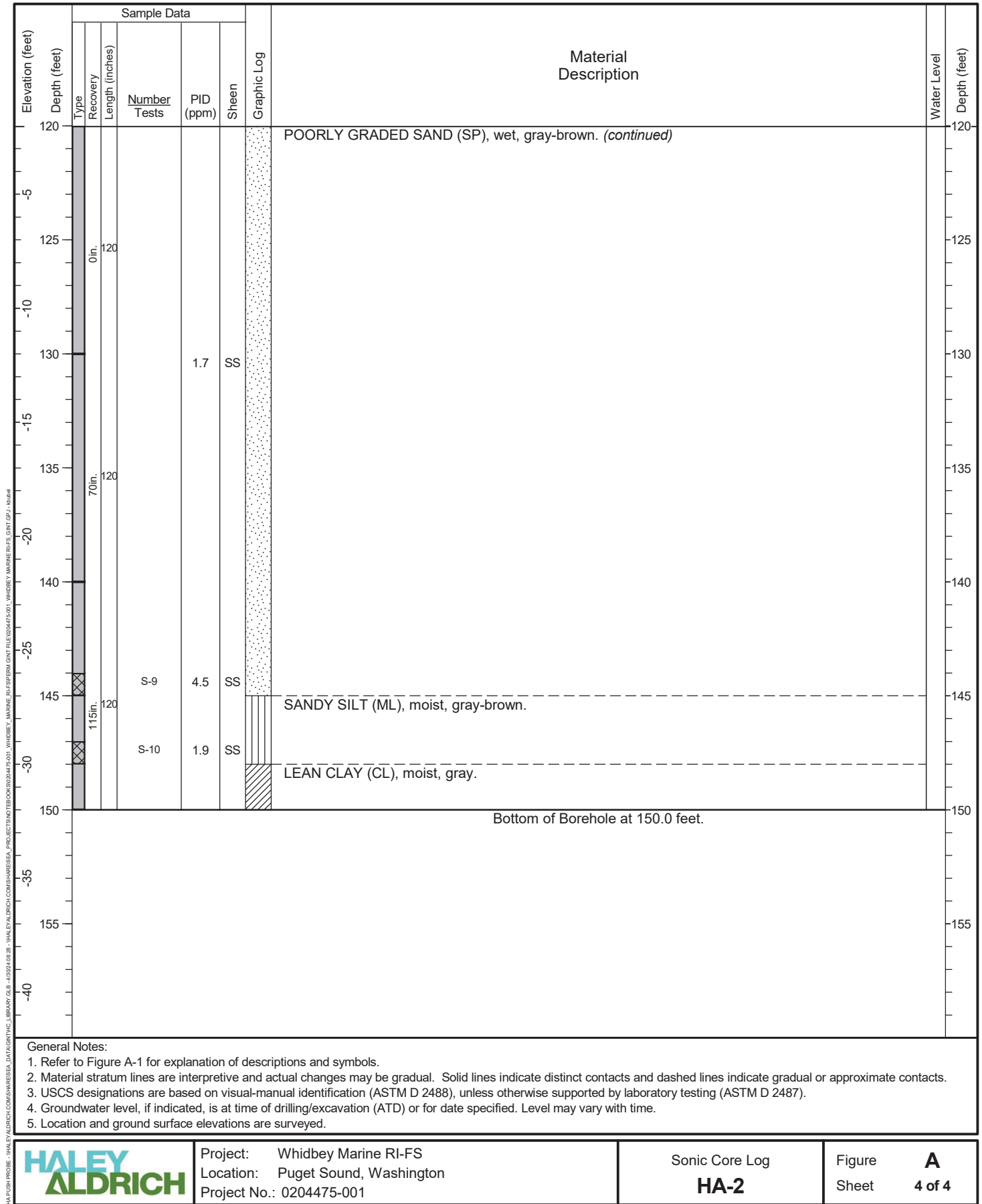


Project: Whidbey Marine RI-FS
Location: Puget Sound, Washington
Project No.: 0204475-001

Sonic Core Log
HA-2

Figure
Sheet
A
3 of 4

| | | |
|---|----------------------------|---|
| Date Started: 01/24/2024 | Date Completed: 01/25/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,895.30 E: 1,226,694.40 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 118.00 feet (NAVD 88) | Total Depth: 150.0 feet | Depth to Groundwater: 50 feet |
| Comments: Grab groundwater samples collected from 50 to 55 ft below ground surface. | | |



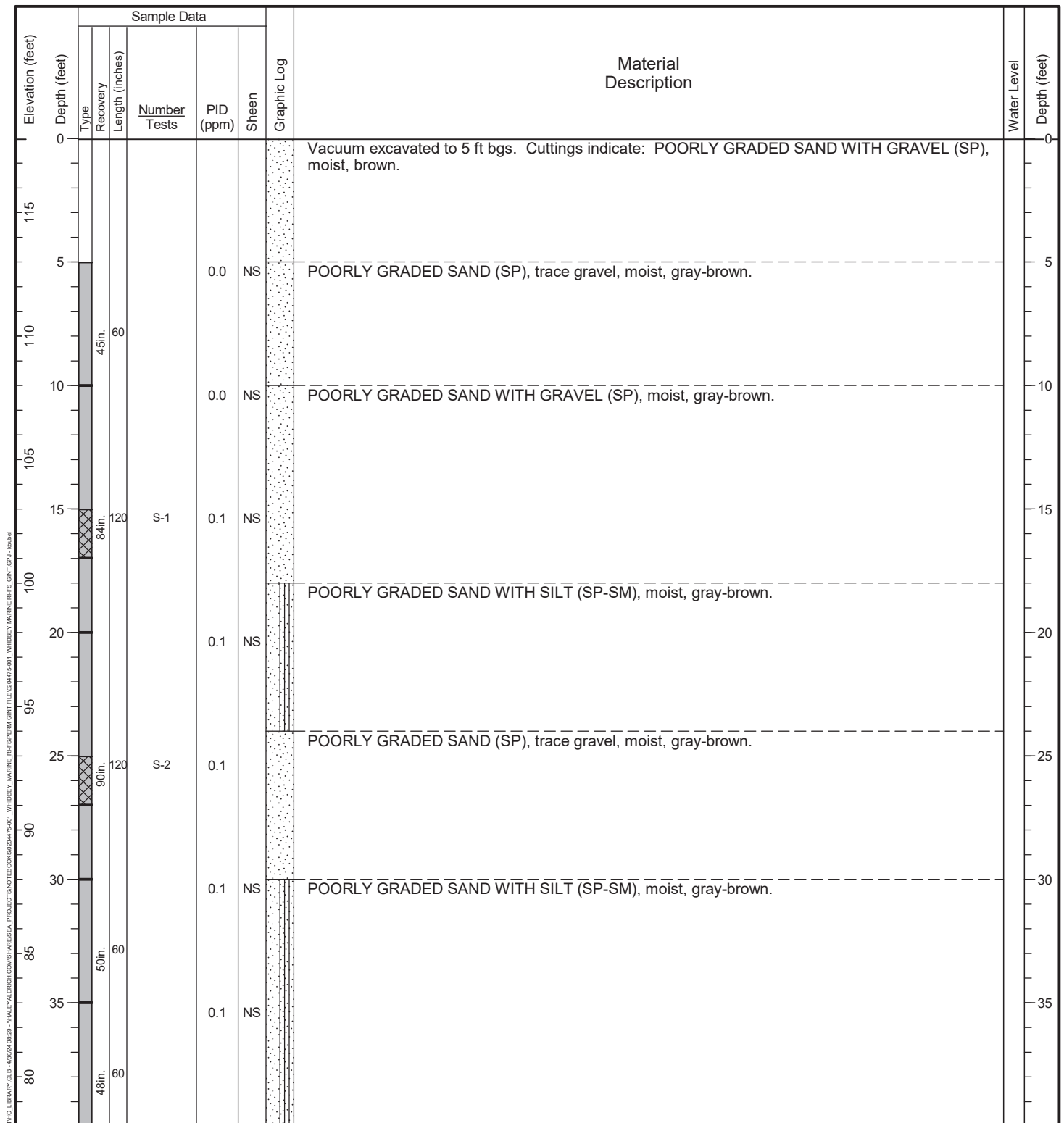
Contractor/Crew: Anderson Environmental Contracting, LLC / John

Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 8 inches Well Casing Diameter: NA

Total Depth: 120.0 feet Depth to Groundwater: 55 feet

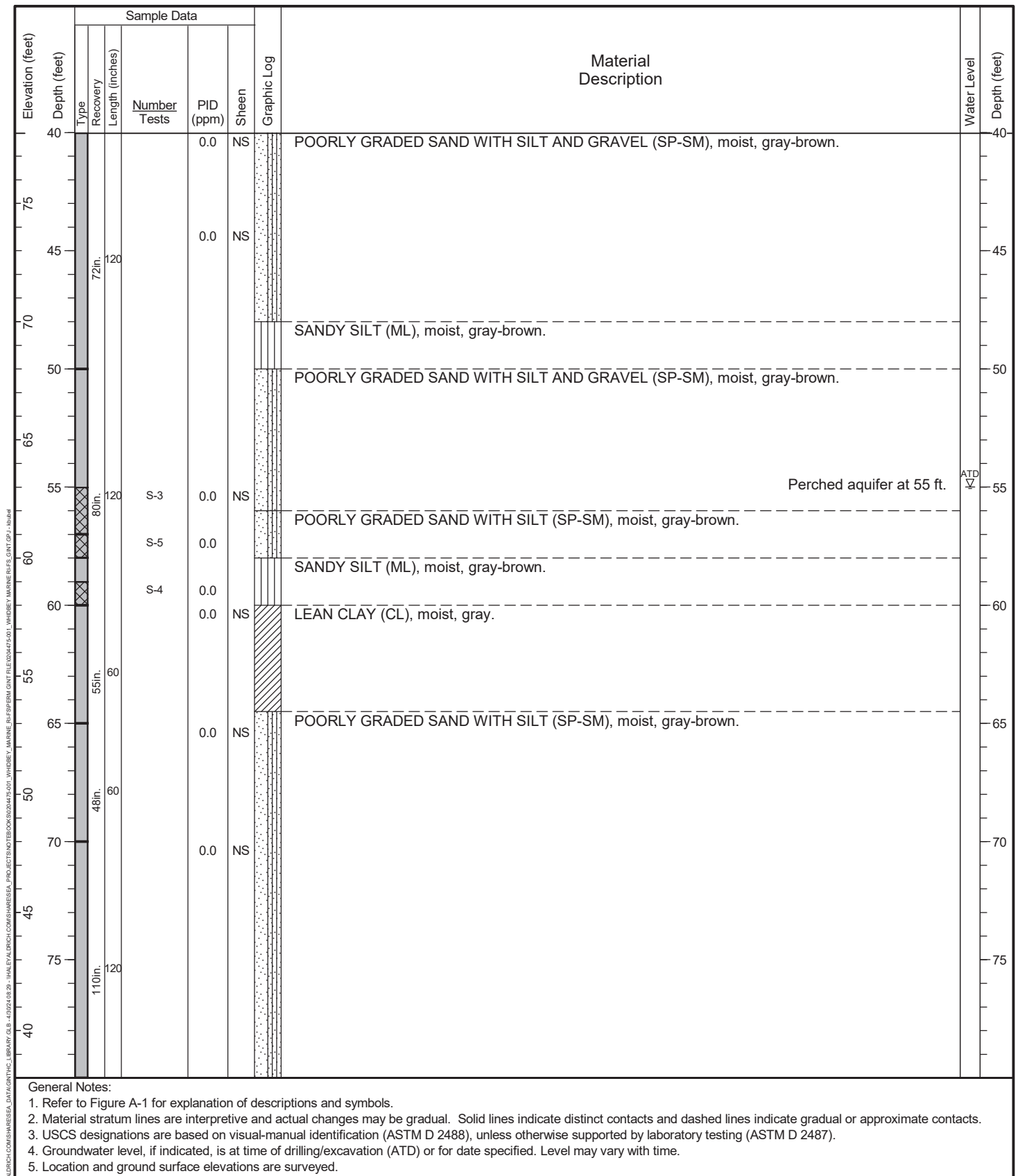
Comments: Grab groundwater samples collected from 55 to 60 ft below ground surface.



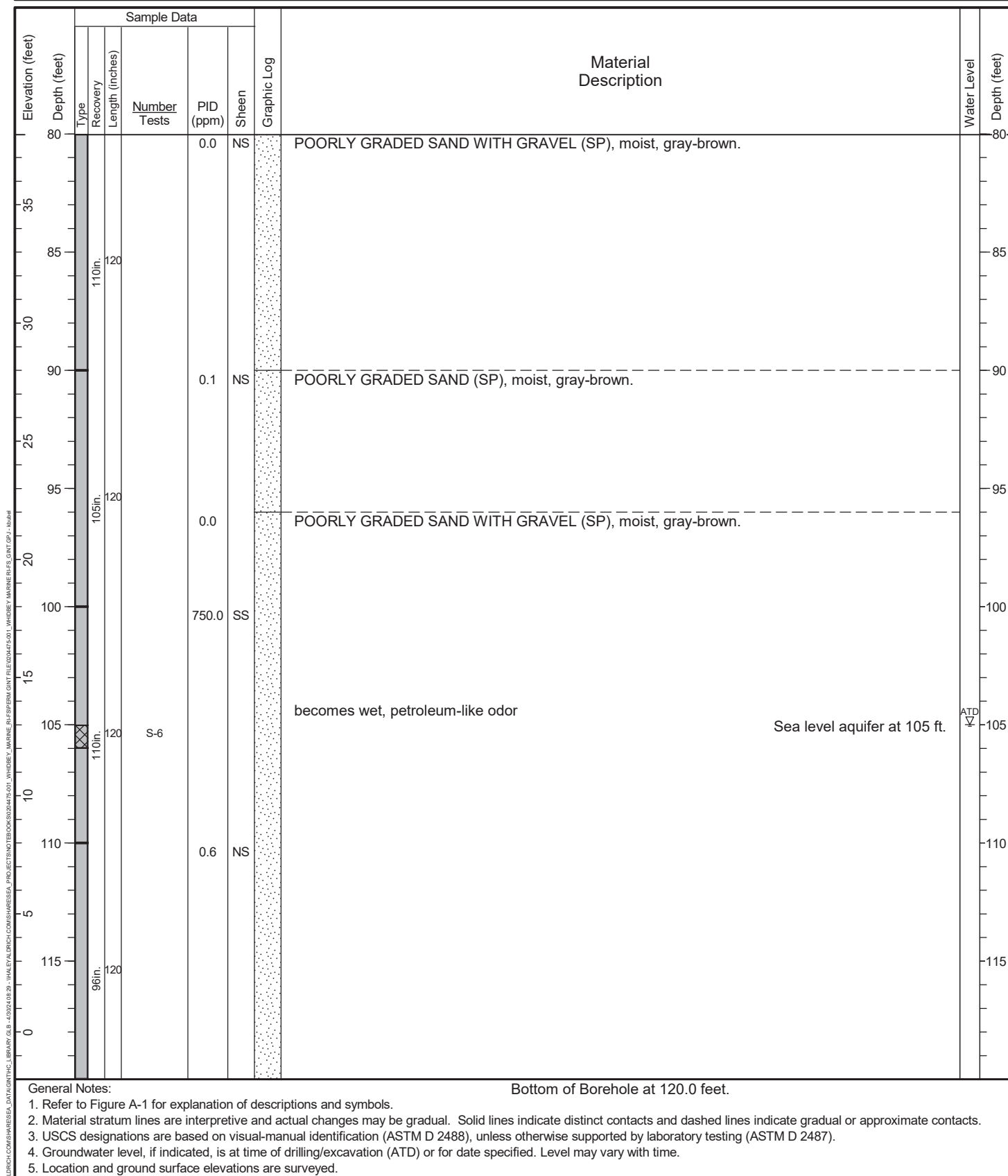
General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

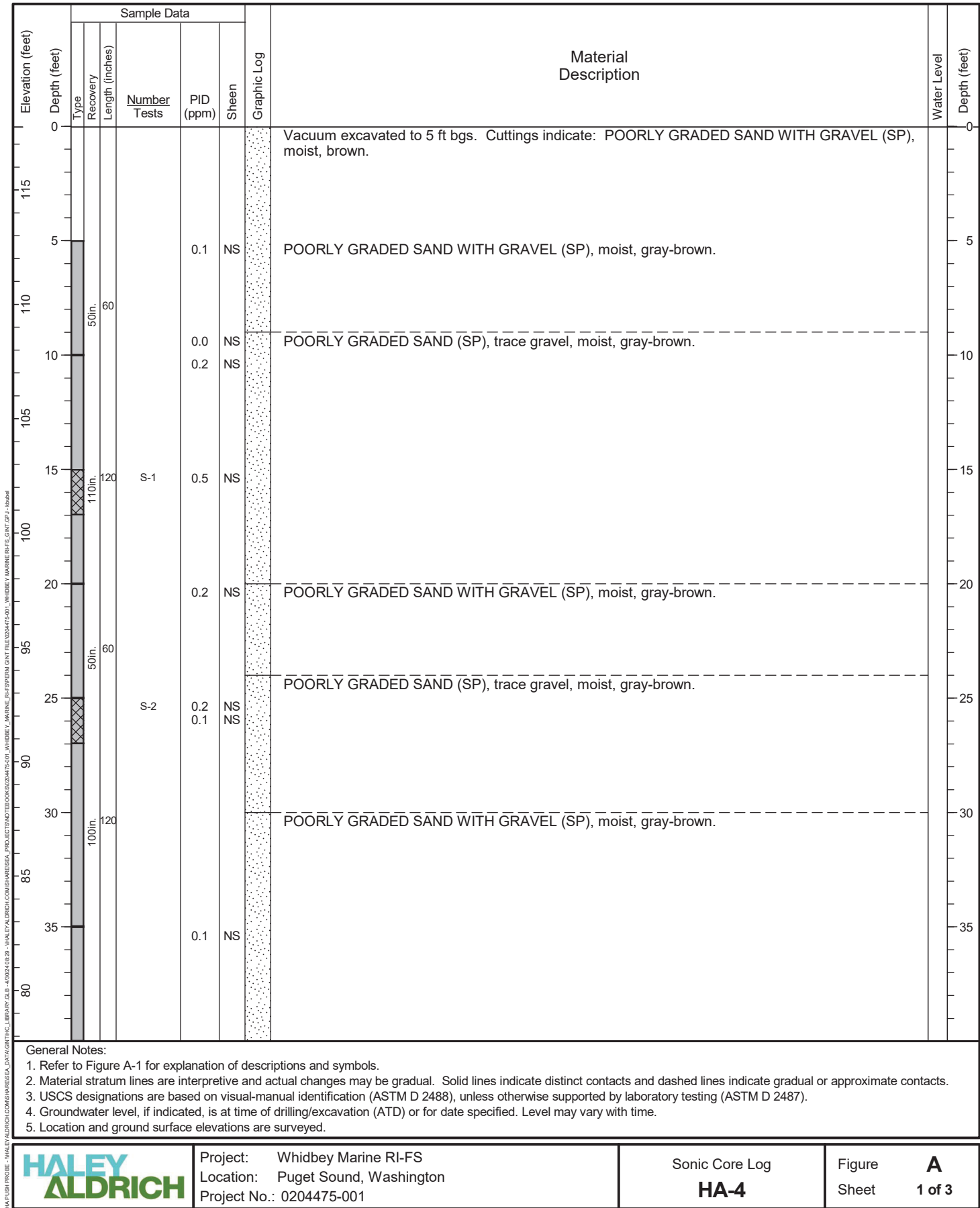
| | | |
|---|----------------------------|---|
| Date Started: 01/23/2024 | Date Completed: 01/24/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,956.19 E: 1,226,781.56 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 118.00 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 55 feet |
| Comments: Grab groundwater samples collected from 55 to 60 ft below ground surface. | | |



Date Started: 01/23/2024 Date Completed: 01/24/2024 Contractor/Crew: Anderson Environmental Contracting, LLC / John
Logged by: Z. Stephens Checked by: H. Good Rig Model/Type: TSi 150CC / Track-mounted drill rig
Location: N: 372,956.19 E: 1,226,781.56 (WA State Plane N, NAD 83, ft.) Hole Diameter: 8 inches Well Casing Diameter: NA
Ground Surface Elevation: 118.00 feet (NAVD 88) Total Depth: 120.0 feet Depth to Groundwater: 55 feet
Comments: Grab groundwater samples collected from 55 to 60 ft below ground surface.



| | | |
|---|----------------------------|---|
| Date Started: 01/29/2024 | Date Completed: 01/29/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,869.67 E: 1,226,696.33 (WA State Plane N, NAD 83, ft.) | | Hole Diameter: 8 inches Well Casing Diameter: NA |
| Ground Surface Elevation: 117.78 feet (NAVD 88) | | Total Depth: 110.0 feet Depth to Groundwater: 100 feet |
| Comments: | | |

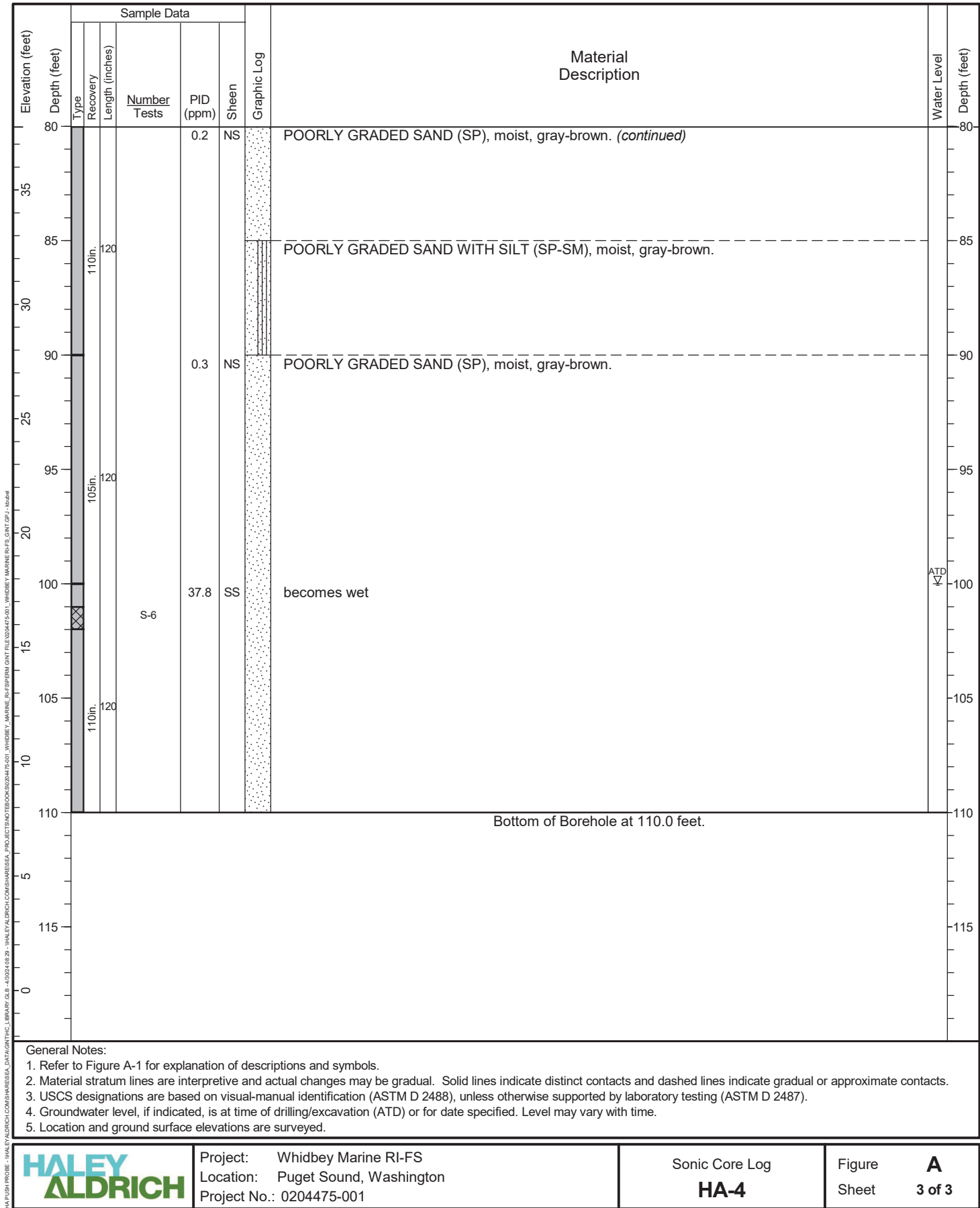


| | |
|---|--------------------------------|
| Contractor/Crew: Anderson Environmental Contracting, LLC / John | |
| Rig Model/Type: TSi 150CC / Track-mounted drill rig | |
| Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Total Depth: 110.0 feet | Depth to Groundwater: 100 feet |

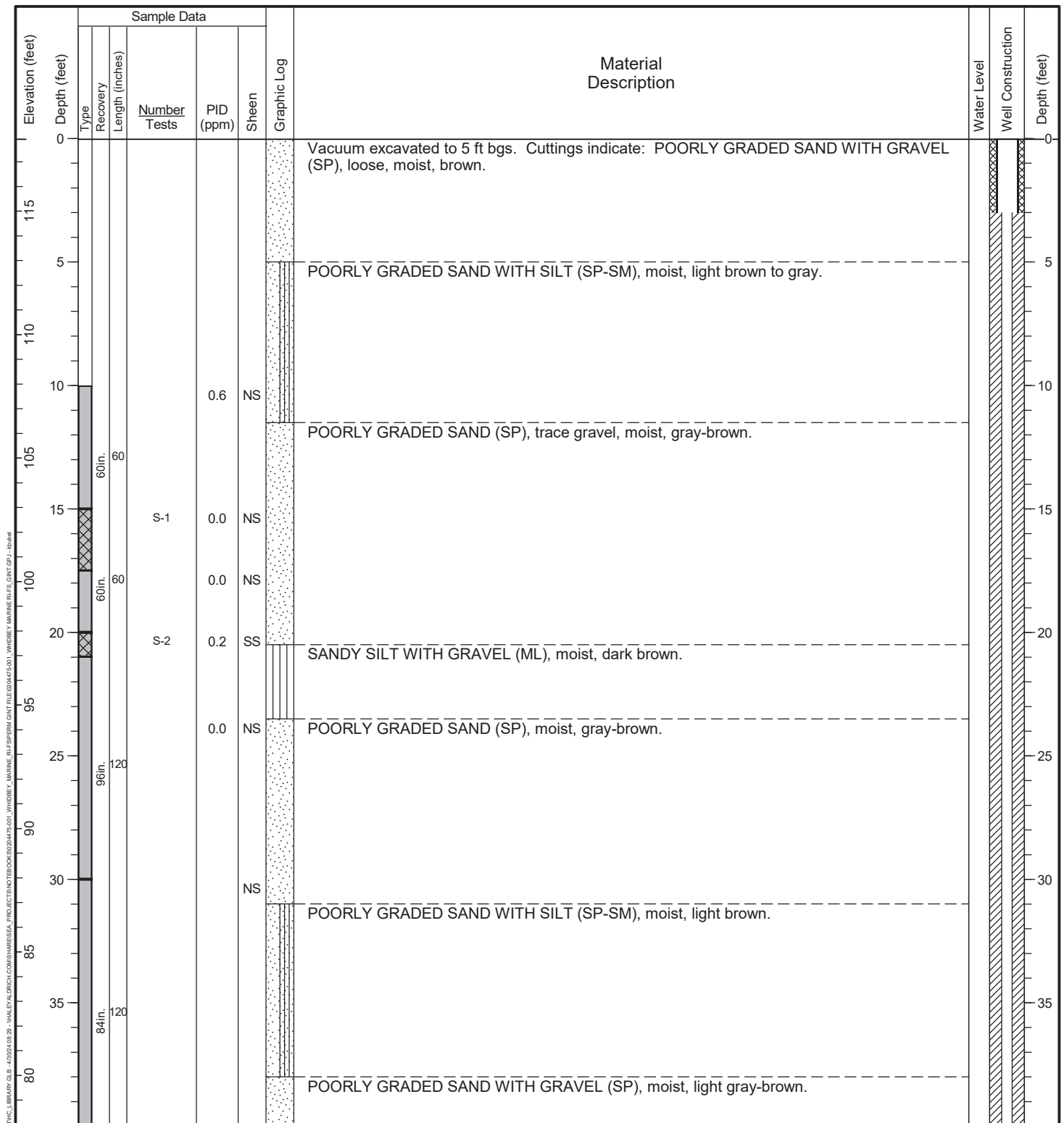


1. Refer to Figure A-1 for explanation of descriptions and symbols.
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3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/29/2024 | Date Completed: 01/29/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,869.67 E: 1,226,696.33 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 8 inches | Well Casing Diameter: NA |
| Ground Surface Elevation: 117.78 feet (NAVD 88) | Total Depth: 110.0 feet | Depth to Groundwater: 100 feet |
| Comments: | | |

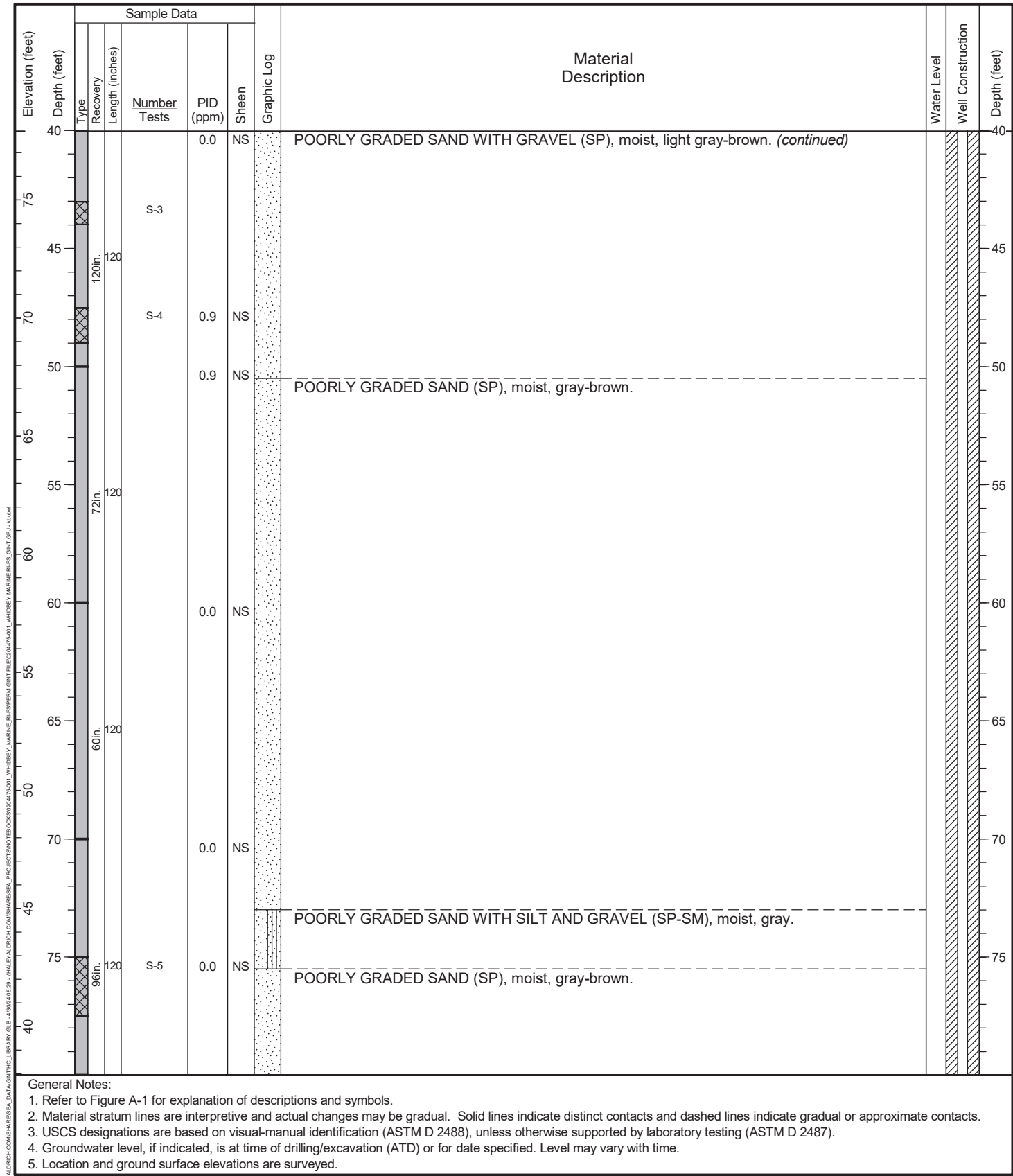


| | | |
|---|----------------------------|---|
| Date Started: 01/09/2024 | Date Completed: 01/11/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,681.70 E: 1,226,547.13 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 117.94 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 104.2 feet |
| Comments: Well Tag ID: BQG968 | | |

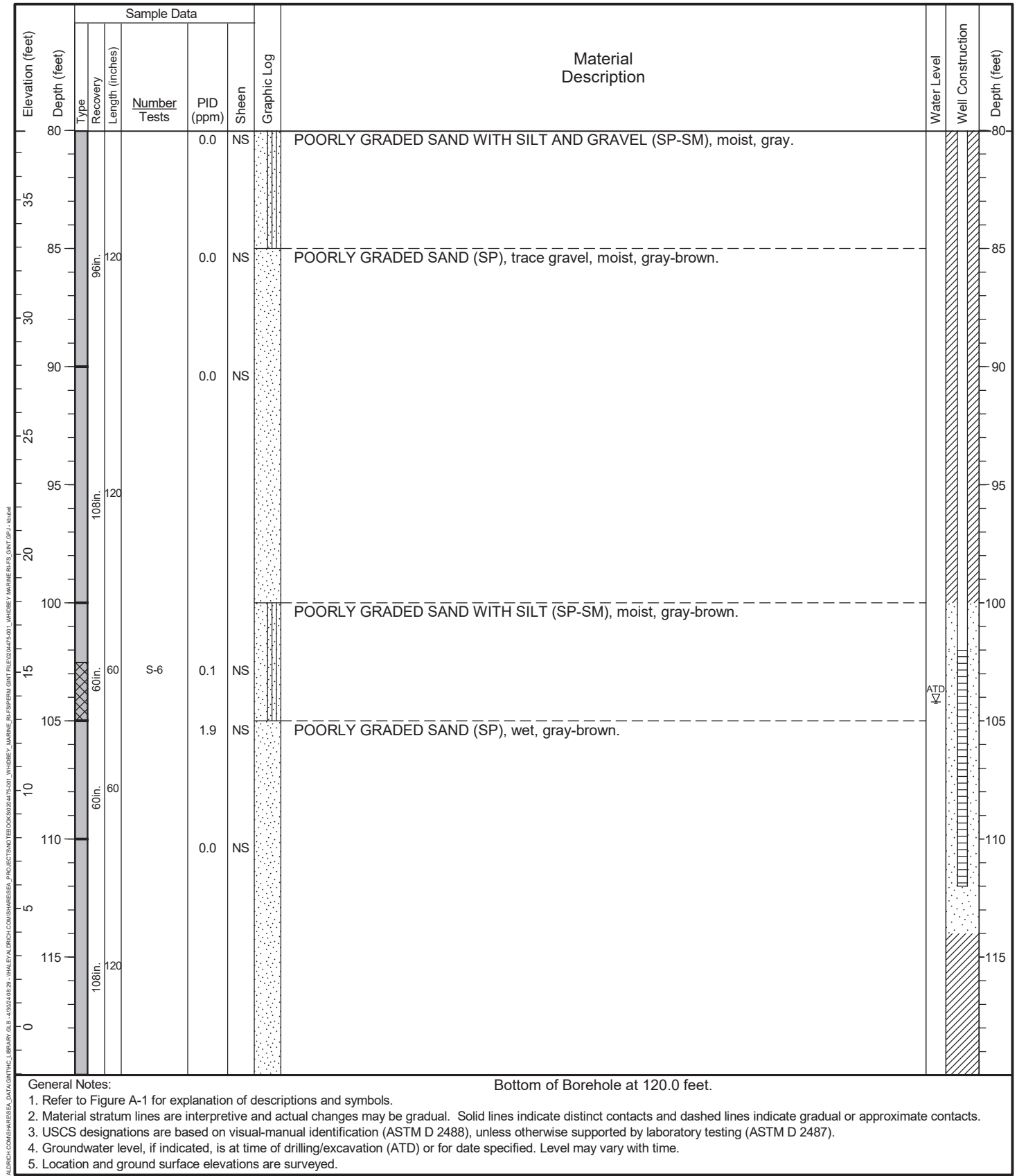


- General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/09/2024 | Date Completed: 01/11/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,681.70 E: 1,226,547.13 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 117.94 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 104.2 feet |
| Comments: Well Tag ID: BQG968 | | |



| | | |
|---|----------------------------|---|
| Date Started: 01/09/2024 | Date Completed: 01/11/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,681.70 E: 1,226,547.13 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 117.94 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 104.2 feet |
| Comments: Well Tag ID: BQG968 | | |



| | |
|---|------------------------------------|
| Contractor/Crew: Anderson Environmental Contracting, LLC / John | |
| Rig Model/Type: TSi 150CC / Track-mounted drill rig | |
| Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Total Depth: 115.0 feet | Depth to Groundwater: 103.75 feet |



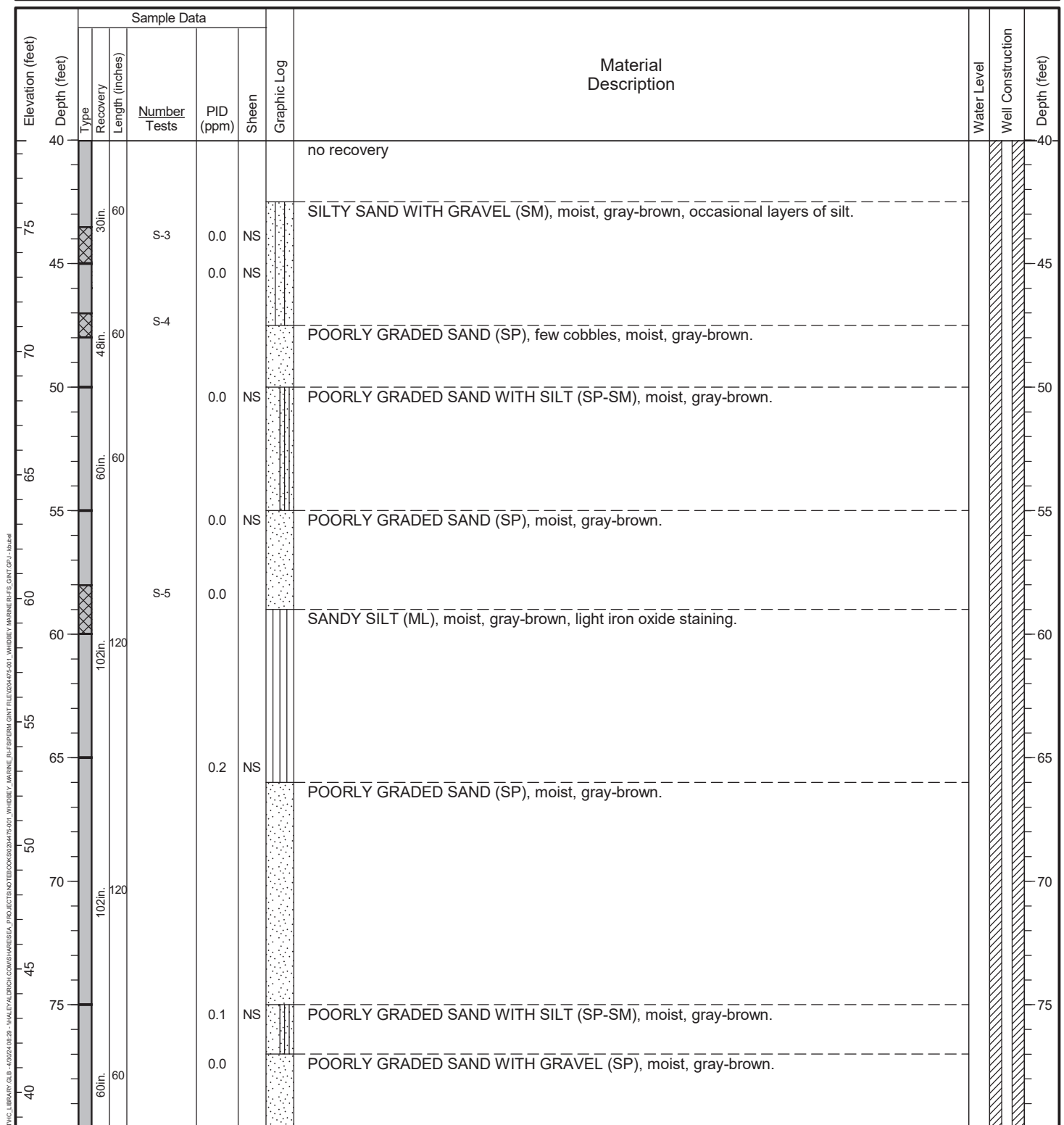
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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

Contractor/Crew: Anderson Environmental Contracting, LLC / John

Rig Model/Type: TSi 150CC / Track-mounted drill rig

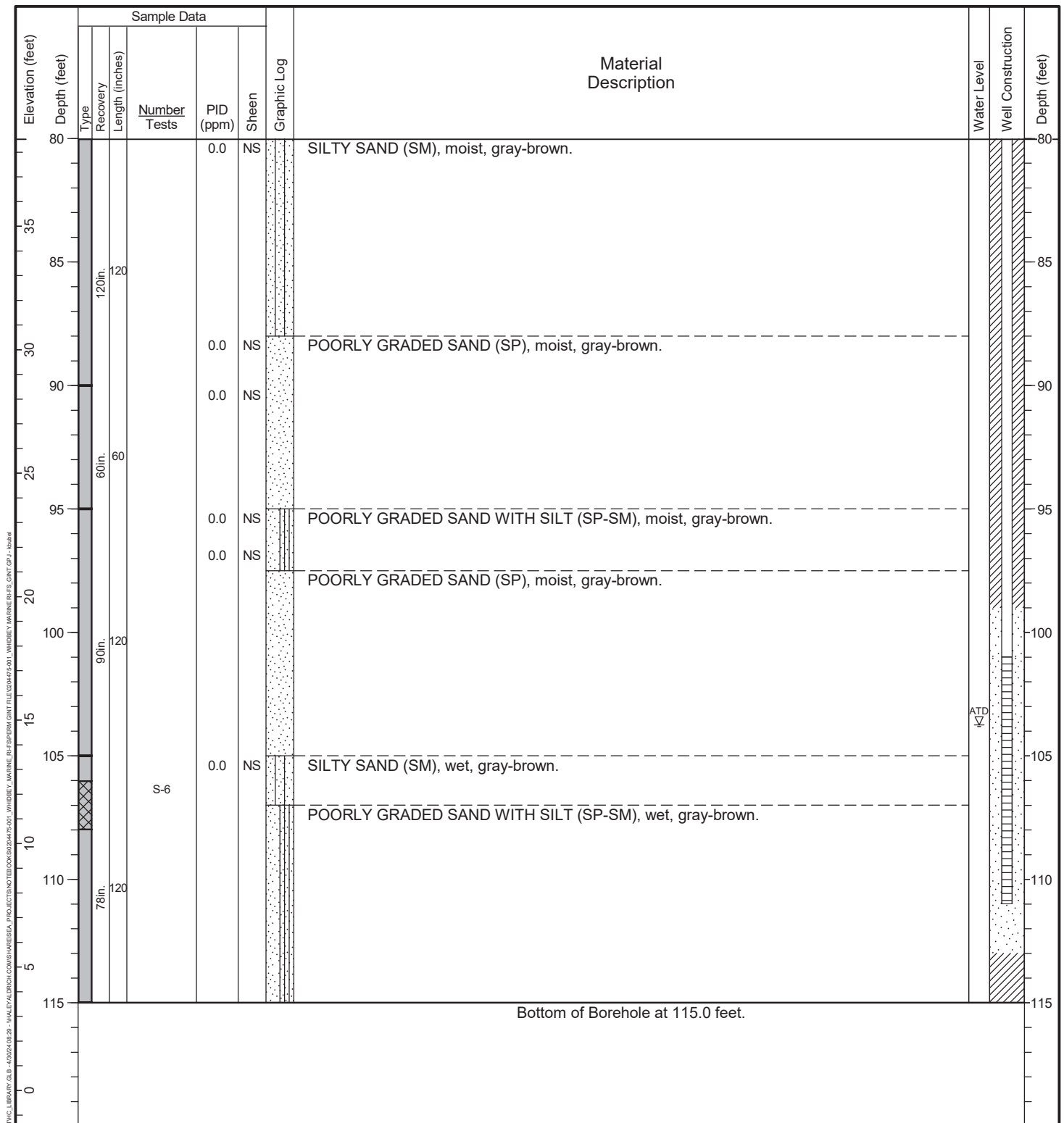
Hole Diameter: 6 inches Well Casing Diameter: ID: 2 inches

Total Depth: 115.0 feet Depth to Groundwater: 103.75 feet



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/10/2024 | Date Completed: 01/15/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,613.56 E: 1,226,753.72 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 118.55 feet (NAVD 88) | Total Depth: 115.0 feet | Depth to Groundwater: 103.75 feet |
| Comments: Well Tag ID: BQG969 | | |



- General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are surveyed.

| | |
|---|------------------------------------|
| Contractor/Crew: Anderson Environmental Contracting, LLC / John | |
| Rig Model/Type: TSi 150CC / Track-mounted drill rig | |
| Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Total Depth: 115.0 feet | Depth to Groundwater: 102 feet |



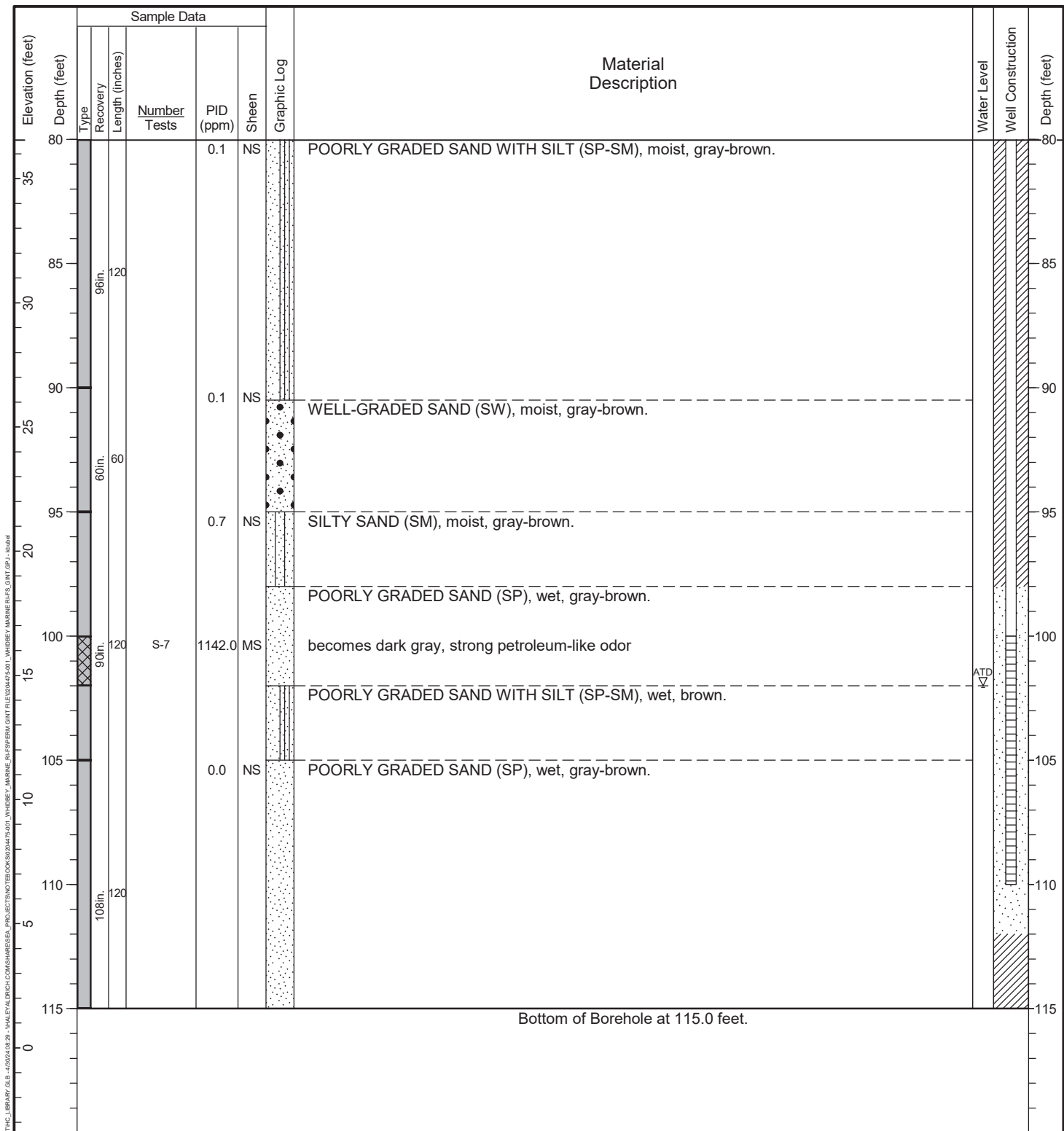
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2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | |
|---|------------------------------------|
| Contractor/Crew: Anderson Environmental Contracting, LLC / John | |
| Rig Model/Type: TSi 150CC / Track-mounted drill rig | |
| Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Total Depth: 115.0 feet | Depth to Groundwater: 102 feet |



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/16/2024 | Date Completed: 01/16/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,772.36 E: 1,226,442.30 (WA State Plane N, NAD 83, ft.) | | Hole Diameter: 6 inches Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 116.58 feet (NAVD 88) | | Total Depth: 115.0 feet Depth to Groundwater: 102 feet |
| Comments: Well Tag ID: BQG970 | | |



- General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are surveyed.

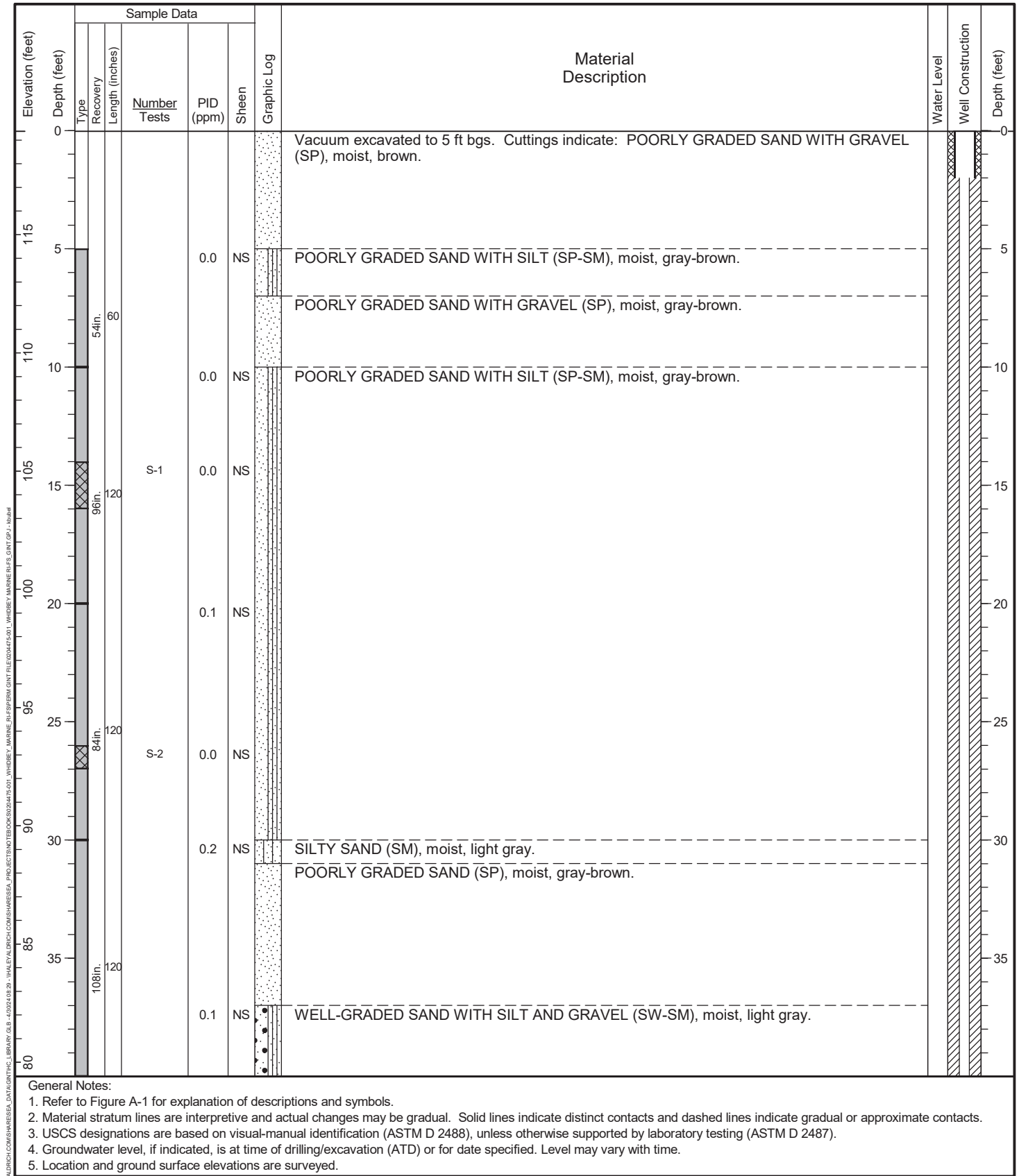


Project: Whidbey Marine RI-FS
Location: Puget Sound, Washington
Project No.: 0204475-001

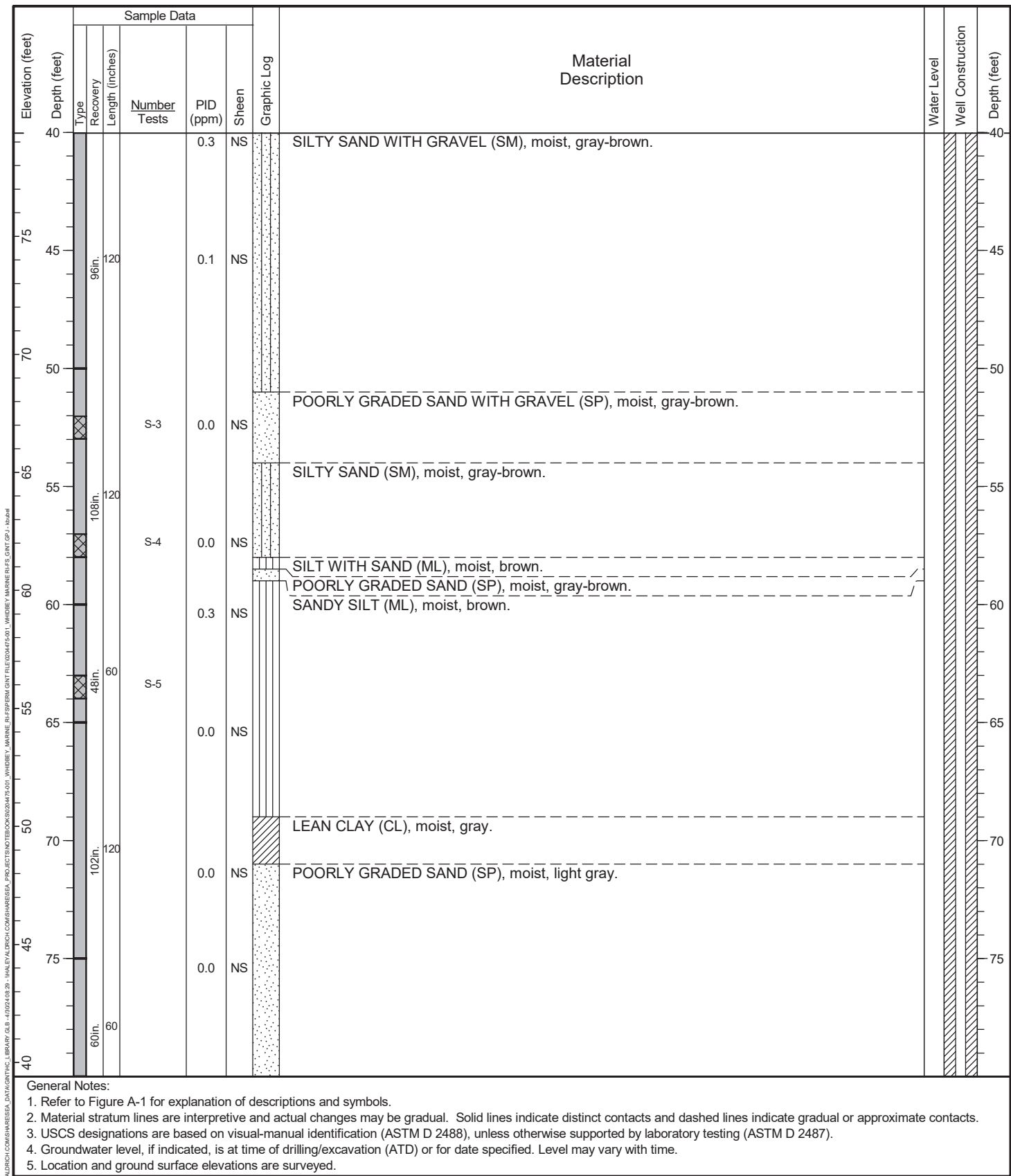
Sonic Core and Monitoring
Well Log
MW-21D

Figure **A**
Sheet **3 of 3**

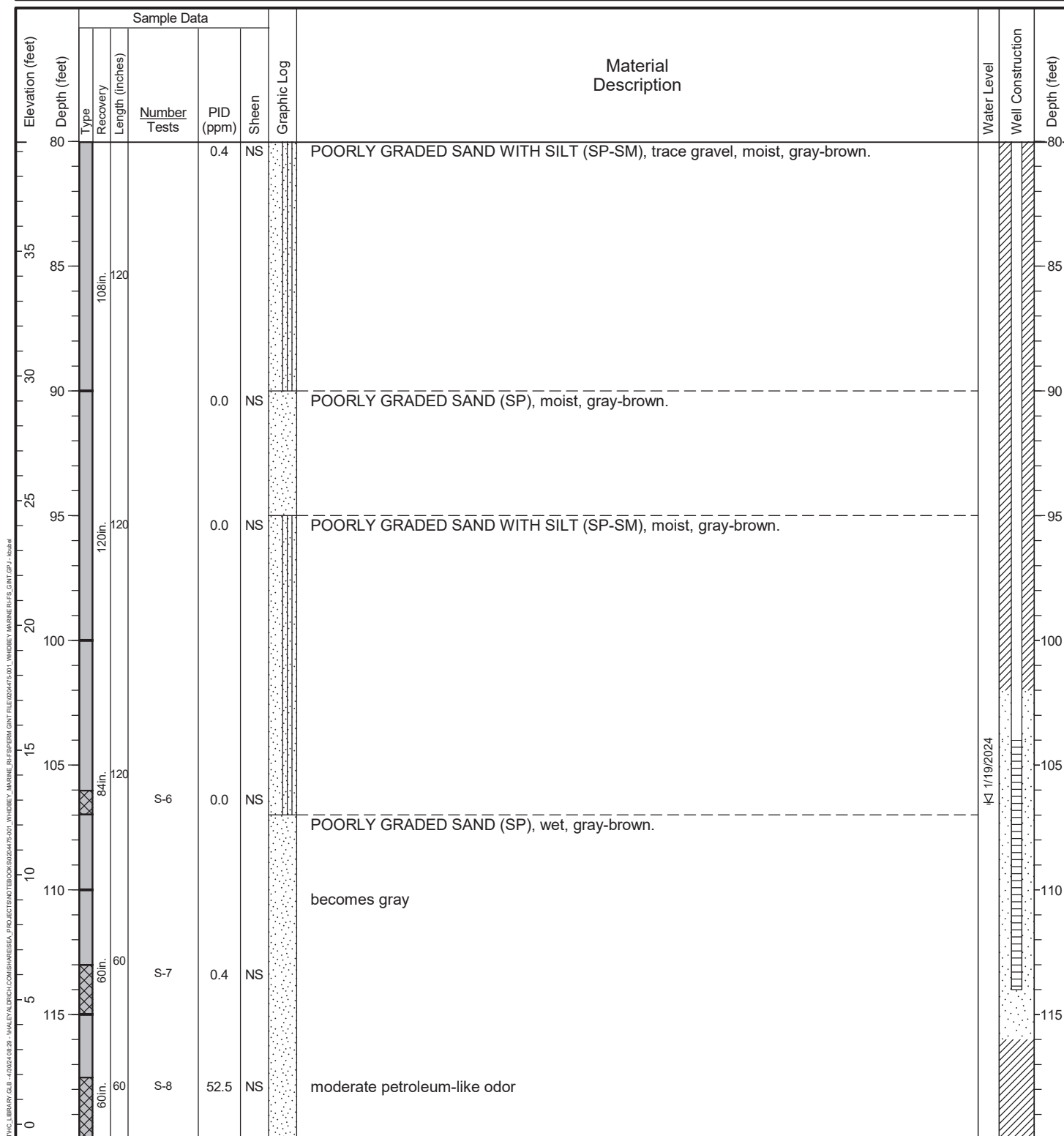
| | | |
|---|----------------------------|---|
| Date Started: 01/17/2024 | Date Completed: 01/19/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,701.26 E: 1,226,759.57 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 119.40 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 106.5 feet |
| Comments: Well Tag ID: BQG971 Grab groundwater samples collected from 64 to 69 ft below ground surface. | | |



Date Started: 01/17/2024 Date Completed: 01/19/2024 Contractor/Crew: Anderson Environmental Contracting, LLC / John
 Logged by: A. Nakahara Checked by: H. Good Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: N: 372,701.26 E: 1,226,759.57 (WA State Plane N, NAD 83, ft.) Hole Diameter: 6 inches Well Casing Diameter: ID: 2 inches
 Ground Surface Elevation: 119.40 feet (NAVD 88) Total Depth: 120.0 feet Depth to Groundwater: 106.5 feet
 Comments: Well Tag ID: BQG971 Grab groundwater samples collected from 64 to 69 ft below ground surface.



Date Started: 01/17/2024 Date Completed: 01/19/2024 Contractor/Crew: Anderson Environmental Contracting, LLC / John
Logged by: A. Nakahara Checked by: H. Good Rig Model/Type: TSi 150CC / Track-mounted drill rig
Location: N: 372,701.26 E: 1,226,759.57 (WA State Plane N, NAD 83, ft.) Hole Diameter: 6 inches Well Casing Diameter: ID: 2 inches
Ground Surface Elevation: 119.40 feet (NAVD 88) Total Depth: 120.0 feet Depth to Groundwater: 106.5 feet
Comments: Well Tag ID: BQG971 Grab groundwater samples collected from 64 to 69 ft below ground surface.



- General Notes:
- Refer to Figure A-1 for explanation of descriptions and symbols.
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 - Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 - Location and ground surface elevations are surveyed.
- Bottom of Borehole at 120.0 feet.

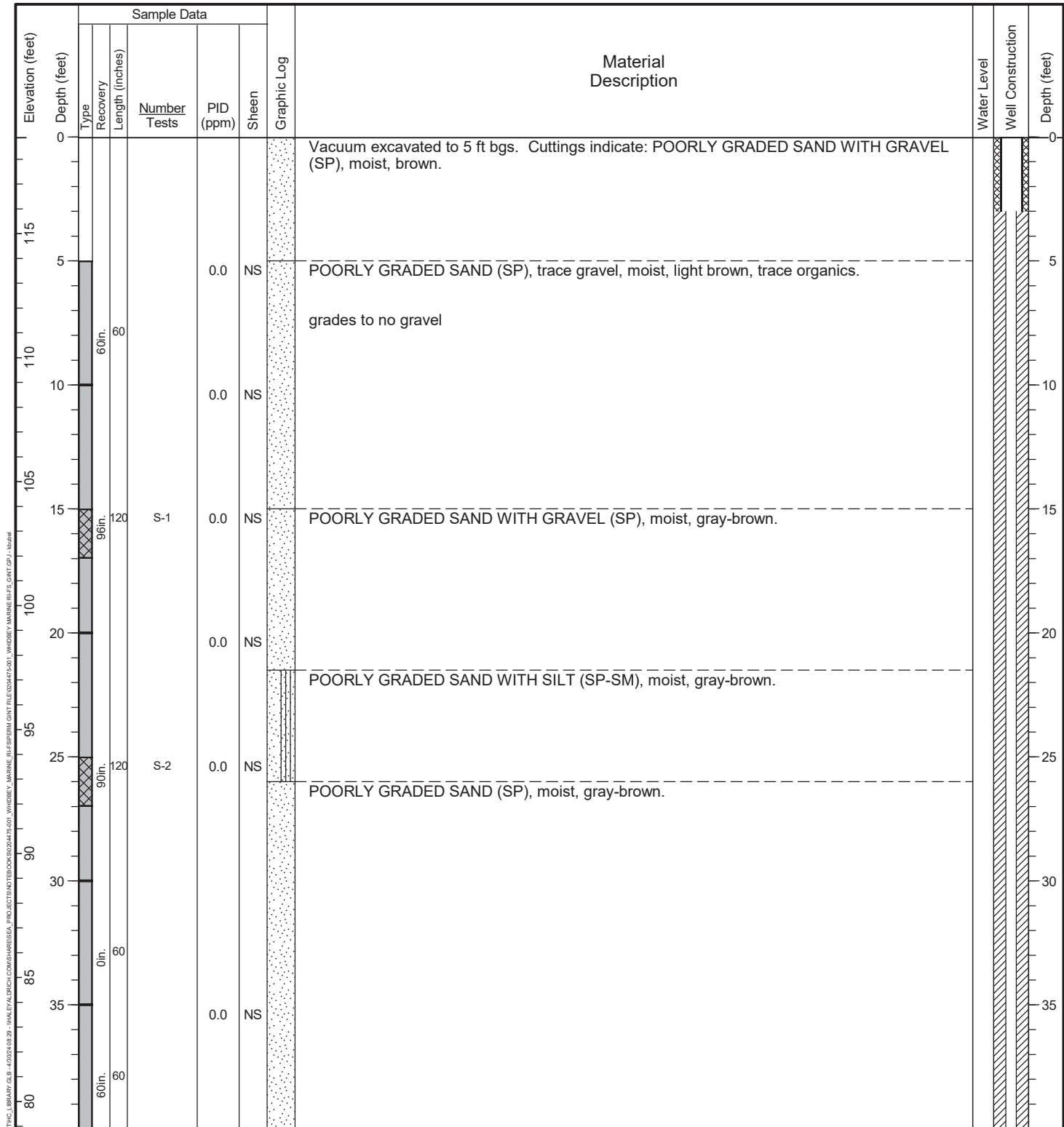


Project: Whidbey Marine RI-FS
Location: Puget Sound, Washington
Project No.: 0204475-001

Sonic Core and Monitoring
Well Log
MW-22D

Figure **A**
Sheet **3 of 3**

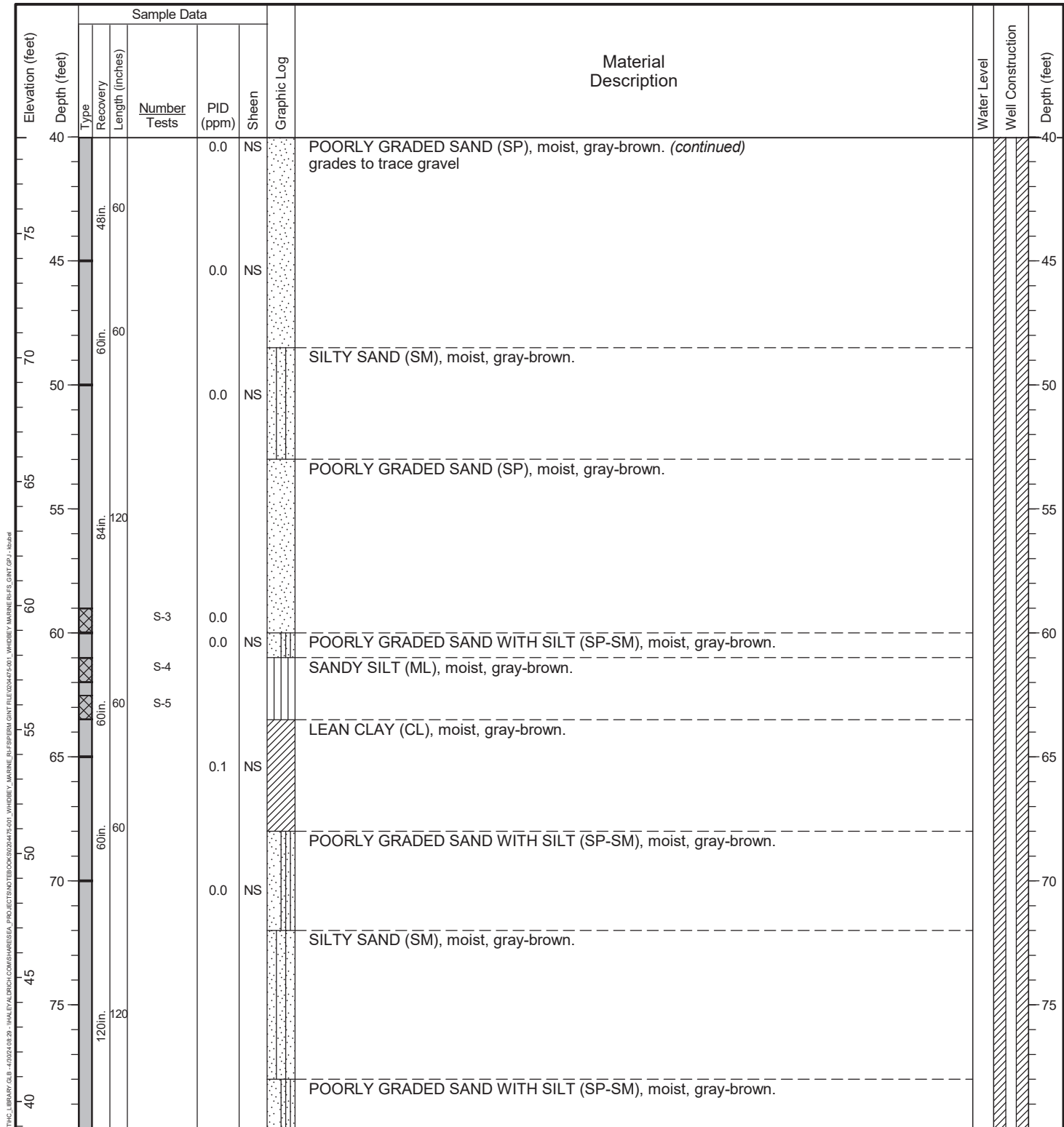
| | | |
|---|----------------------------|---|
| Date Started: 01/19/2024 | Date Completed: 01/22/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara / Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,772.92 E: 1,226,772.62 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 118.90 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 103.5 feet |
| Comments: Well Tag ID: BQG972 | | |



General Notes:

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5. Location and ground surface elevations are surveyed.

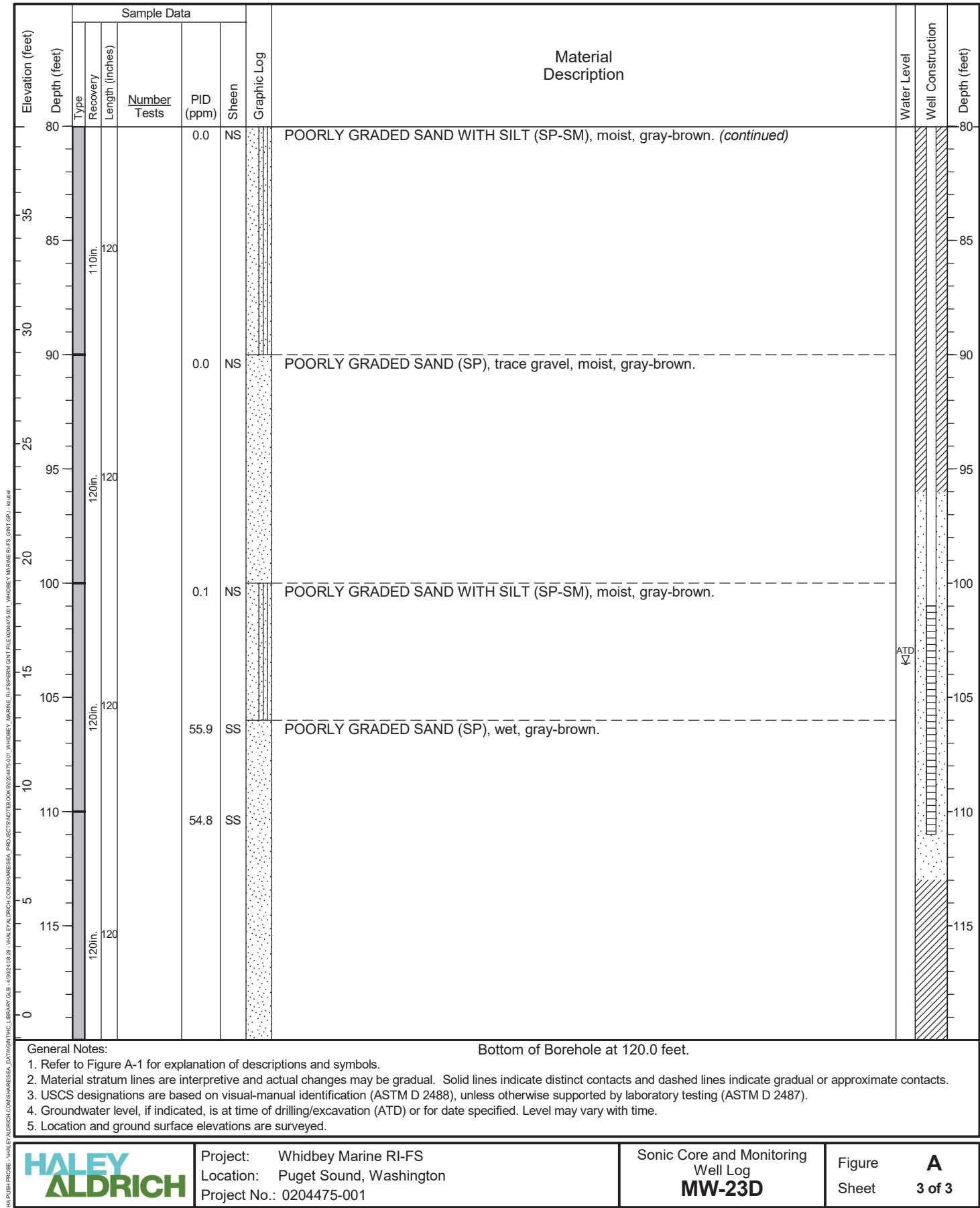
| | | |
|---|----------------------------|---|
| Date Started: 01/19/2024 | Date Completed: 01/22/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara / Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,772.92 E: 1,226,772.62 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 118.90 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 103.5 feet |
| Comments: Well Tag ID: BQG972 | | |



General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are surveyed.

| | | |
|---|----------------------------|---|
| Date Started: 01/19/2024 | Date Completed: 01/22/2024 | Contractor/Crew: Anderson Environmental Contracting, LLC / John |
| Logged by: A. Nakahara / Z. Stephens | Checked by: H. Good | Rig Model/Type: TSi 150CC / Track-mounted drill rig |
| Location: N: 372,772.92 E: 1,226,772.62 (WA State Plane N, NAD 83, ft.) | Hole Diameter: 6 inches | Well Casing Diameter: ID: 2 inches |
| Ground Surface Elevation: 118.90 feet (NAVD 88) | Total Depth: 120.0 feet | Depth to Groundwater: 103.5 feet |
| Comments: Well Tag ID: BQG972 | | |



Data Usability Summary Report

Project Name: Whidbey Island

Project Description: Groundwater Samples

Sample Date(s): 26 through 28 September 2023

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, Washington

Validation Performed by: Kristina Ilina

Validation Reviewed by: Katherine Miller

Validation Date: 13 October 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

1. Sample Delivery Group
 2. Explanations
 3. Glossary
 4. Abbreviations
 5. Qualifiers
- References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.
- NFG for Inorganic Data Review.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures. The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 309422, dated 6 October 2023,
- 309479, dated 9 October 2023, and
- 309532, dated 11 October 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol.

- Samples for E300, SM2320B, RSK175, SM4500-NH3G, SM4500-S2-D, and SM5310C analysis were subcontracted to Fremont Analytical – Seattle, WA.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- Custody seals were not used on the sample cooler(s).

Analyses were performed on the samples listed in Table 1. Method holding times are listed in Table 2.

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification and/or continuing calibration verification exceedances. Since these additional quality control issues were not required for the project's DQOs, these quality control issues were not reviewed.

- SDG 309479 and 309532: The 8260D calibration standard failed the acceptance criteria for acetone. No qualification necessary.
- SDG 309532: The chromatographic pattern does not resemble the fuel standard used for quantitation for diesel-range organics (DRO) for all samples in the SDG. No qualification necessary.
- The concentration of the nitrate exceeded the calibration range for sample MW-15D-GW-20230927. Qualified with J.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

| Lab ID | Analysis Date/Time | Method | Analyte | Qualification |
|------------------------------|------------------------------------|--------|----------------|---|
| 2309476-001B 2309476-002B | 9/28/2023 10:04 9/28/2023 10:27 | E300 | Nitrate (as N) | The laboratory reanalyzed the sample due to a concentration exceeding range of the calibration. The original results are marked non-reportable and the reanalysis results are accepted. |

| Lab ID | Analysis Date/Time | Method | Analyte | Qualification |
|--|--|---------|---|---|
| 309479-01 309479-02 309479-03 | 9/29/2023 16:55 9/29/2023 17:27 9/29/2023 18:02 | SW8270E | 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene | The sample required the dilution due to results exceedance. The laboratory marked the original results non-reportable and the reanalysis results were accepted. |
| 309479-03 309532-02 309532-04 309532-06 | 10/2/2023 13:08 10/3/2023 10:33 10/3/2023 12:42 10/3/2023 13:15 | SW8270E | Several analytes | The laboratory selected the analytes to be reported from two batches due to the high dilutions |

1.4 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

| Method | Matrix | Holding Time | Preservation | Sample ID, Violation, Qualification |
|--------|--------|--------------|----------------------------------|---|
| E300 | Water | 48 hours | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were analyzed outside the holding time and qualified J: MW-14D-GW-20230926 MW-18D-GW-20230926 |

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.6 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control limits, with the following exceptions:

| Method | Sample ID | Lab ID | Surrogate | Dilution | %R | Qualification |
|---------|-----------------|-----------|----------------------|----------|------|---------------------|
| SW8270E | MW-9D-20230928 | 309532-04 | 2,4,6-Tribromophenol | 200x | 0% | None, dilution > 5x |
| SW8270E | MW-12D-20230928 | 309532-05 | 2,4,6-Tribromophenol | 100x | 173% | None, dilution > 5x |
| SW8270E | FD-01-20230928 | 309532-06 | 2,4,6-Tribromophenol | 200x | 0% | None, dilution > 5x |

1.7 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

| Sample Type | Method | Batch ID | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|--------|----------|---------|--------|-----------|-------------------------|
| LCS | E300 | 41641 | Sulfate | 114% | NA | None, within NFG limits |

1.8 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

| Lab Sample Number | Matrix Spike/Matrix Spike Duplicate Sample Client ID | Method(s) |
|-------------------|--|-------------|
| 309422-01 | MW-14D-GW-20230926 | SW8260D |
| 2309476-002C | MW-18D-GW-20230926 | SM4500-NH3G |
| 2309476-001D | MW-14D-GW-20230926 | SM4500-S2-D |
| 2309483-002B | MW-8S-GW-20230927 | SM5310C |
| 309532-05 | MW-12D-20230928 | SW6020B |
| 309532-01 | MW-4S-20230928 | SW6020B |
| 2309528-003B | MW-9D-20230928 | SM4500-NH3G |

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

| Sample Type | Method | Parent Sample | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|-------------|--------------------|-------------------|---------|-----------|---|
| MS/MSD | SM4500-NH3G | MW-18D-GW-20230926 | Nitrogen, Ammonia | 0%/0% | J-/R | MW-14D-GW-20230926 MW-18D-GW-20230926 |
| MS/MSD | SW6020B | MW-12D-20230928 | Manganese | 147%/0% | NA | None, native sample > 4x the spike added |
| MS/MSD | SM4500-NH3G | MW-9D-20230928 | Nitrogen, Ammonia | 0%/0% | J-/R | MW-12D-20230928 MW-4S-20230928 MW-6S-20230928 MW-9D-20230928 FD-01-20230928 |

1.9 BLANK SAMPLE ANALYSIS

[Refer to section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

| SDG | Blank Type | Batch ID | Analyte Detected in Blank | Concentration (µg/L) | Qualifier | Affected Samples |
|---|------------|----------|---------------------------|----------------------|-----------|----------------------|
| 309422 | MB | NA | 1,2-Dibromoethane (EDB) | 0.010 | NA | None, samples are ND |
| Note: µg/L = micrograms per liter | | | | | | |

1.10 DUPLICATE SAMPLE ANALYSIS

[Refer to section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than five times the RL). Any exceptions are noted below and qualified.

| Lab Sample Number | Laboratory Duplicate Sample Client ID | Method(s) |
|-------------------|---------------------------------------|-------------|
| 309422-01 | MW-14D-GW-20230926 | NWTPH-GX |
| 2309476-001A | MW-14D-GW-20230926 | RSK175 |
| 2309476-001B | MW-14D-GW-20230926 | SM2320B |
| 2309476-001D | MW-14D-GW-20230926 | SM4500-S2-D |
| 2309476-002C | MW-18D-GW-20230926 | SM4500-NH3G |
| 309479-04 | MW-15D-GW-20230927 | NWTPH-GX |
| 2309483-002B | MW-8S-GW-20230927 | SM5310C |
| 309532-03 | MW-6S-20230928 | NWTPH-GX |
| 2309528-002A | MW-6S-20230928 | SM2320B |
| 2309528-003B | MW-9D-20230928 | SM4500-NH3G |
| 2309528-005D | FD-01-20230928 | RSK175 |

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than five times the RL). Any exceptions are noted below and qualified.

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|--|
| MW-9D-20230928 | FD-01-20230928 | NWTPH-DX, NWTPH-GX, SM2540D, SW6020B, SW8260D, SW8270E |

| Method | Analyte | Units | Primary Sample ID | Duplicate Sample ID | % RPD | Qualification |
|--|--|-------|-------------------|---------------------|--------|---------------------|
| | | | MW-9D-20230928 | FD-01-20230928 | | |
| NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO | µg/L | 7,500 | 1,900 | 119.1% | J/UJ, Abs Diff > RL |
| SM2540D | Total Suspended Solids (TSS) | mg/L | 18 | 49 | NA | J/UJ, Abs Diff > RL |
| SW6020B | Lead, Dissolved | µg/L | ND | 2.72 | NA | J/UJ, Abs Diff > RL |
| Note mg/L = milligrams per liter | | | | | | |

1.11 PRECISION AND ACCURACY

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected except for rejected data noted in Table 3. A summary of qualifiers applied to this dataset is shown in Table 3.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - % SURVIVAL percent survival
 - µg/L micrograms per liter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - mL/L milliliters per liter
 - mpn/100mL most probable number per 100 milliliters
 - NTU nephelometric turbidity unit
 - pCi/L picocuries per liter
 - µmhos/cm micromhos per centimeter
- Matrices:
 - WM Stormwater
 - WMQ Water Quality control matrix
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - ≤ less than or equal to
 - > greater than
 - ≥ greater than or equal to
 - = equal
 - °C degrees Celsius
 - ± plus or minus
 - ~ approximately
 - x times (multiplier)
- Fractions:
 - D Dissolved (filtered)
 - N Normal (method cannot be filtered)
 - T Total (unfiltered)

4. Abbreviations

| | | | |
|----------|---|-----------------|---|
| %D | Percent Difference | LC | Laboratory Control |
| %R | Percent Recovery | LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| %RSD | Percent Relative Standard Deviation | | |
| 2s | 2 sigma | MDC | Minimum Detectable Concentration |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | MDL | Laboratory Method Detection Limit |
| Abs Diff | Absolute Difference | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| amu | atomic mass unit | NFG | National Functional Guidelines |
| BPJ | Best Professional Judgement | NH ₃ | Ammonia |
| BS | Blank Spike | PCB | Polychlorinated Biphenyl |
| CCB | Continuing Calibration Blank | PDS | Post-Digestion Spike |
| CCV | Continuing Calibration Verification | PEM | Performance Evaluation Mixture |
| CCVL | Continuing Calibration Verification Low | QAPP | Quality Assurance Project Plan |
| | | QC | Quality Control |
| COC | Chain of Custody | QSM | Quality Systems Manual |
| COM | Combined Isotope Calculation | R ² | R-squared value |
| Cr (VI) | Hexavalent Chromium | Ra-226 | Radium-226 |
| CRI | Collision Reaction Interface | Ra-228 | Radium-228 |
| DQO | data quality objective | RESC | Resolution Check Measure |
| DUSR | Data Usability Summary Report | RER | Relative Error Ratio |
| EMPC | Estimated Maximum Possible Concentration | RL | Laboratory Reporting Limit |
| | | RPD | Relative Percent Difference |
| FBK | Field Blank Contamination | RRF | Relative Response Factor |
| FDP | Field Duplicate | RT | Retention Time |
| GC | Gas Chromatograph | SAP | sampling analysis plan |
| GC/MS | Gas Chromatography/Mass Spectrometry | SDG | Sample Delivery Group |
| | | SIM | Selected ion monitoring |
| GPC | Gel Permeation Chromatography | SOP | Standard Operating Procedure |
| HCl | Hydrochloric Acid | SPE | Solid Phase Extraction |
| ICAL | Initial Calibration | SVOC | Semi-Volatile Organic Compound |
| ICB | Initial Calibration Blank | TIC | Tentatively Identified Compound |
| ICP/MS | Inductively Coupled Plasma/ Mass Spectrometry | TKN | Total Kjeldahl Nitrogen |
| | | TPH | Total Petroleum Hydrocarbon |
| ICV | Initial Calibration Verification | TPU | Total Propagated Uncertainty |
| ICVL | Initial Calibration Verification Low | USEPA | U.S. Environmental Protection Agency |
| IPA | Isopropyl Alcohol | VOC | Volatile Organic Compound |

5. Qualifiers

The qualifiers below are from the USEPA NFG and the data in the DUSR may contain these qualifiers:

- Laboratory Qualifiers:
 - BA Relative percent difference out of control.
 - BU Analyzed out of holding time.
 - BV Sample received after holding time expired.
 - EY Result exceeds normal dynamic range; reported as a minimum estimate.
 - F1 MS and/or MSD recovery exceeds control limits.
 - G The Sample MDC is greater than the requested RL.
 - J,DX Results found between the EDL or MDL and laboratory RL.
 - LM MS and/or MSD above acceptance limits. See Blank Spike (LCS).
 - LN MS and/or MSD below acceptance limits. See Blank Spike (LCS).
 - LQ LCS/LCSD recovery above method control limits.
 - MB Analyte present in the method blank.
 - PI Primary and confirm results varied by > than 40% RPD.
 - q The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio; the measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
 - U Result is less than the sample detection limit.
- Validation Notes:
 - Based on validation of the data, a qualifier was not required.
 - *1 Improper preservation of sample.
 - *III Unusual problems found with the data that have been described in the validation report.
 - B Laboratory method blank contamination.
 - D The analysis with this flag should not be used because another more technically sound analysis is available.
 - DNQ Detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit).
 - E Duplicates show poor agreement.
 - H Holding times were exceeded.
 - L1 LCS/LCSD RPD was outside the control limit.
 - Q MS recovery outside of control limits.
 - RPD Pesticides and PCB Confirmation Column RPD Exceeded.

- Validation Qualifiers:

| | |
|----|---|
| = | No Qualifier. |
| J | The compound was positively identified; however, the associated numerical value is an estimated concentration only. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| R | The sample results were rejected as unusable; the compound may or may not be present in the sample. |
| U | The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND". |
| UJ | The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation. |

References

1. United States Environmental Protection Agency (USEPA), 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
2. USEPA, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1 – Sample Management
Table 2 – Method Description
Table 3 – Summary of Qualifiers

TABLE 1
SAMPLE MANAGEMENT
 WHIDBEY ISLAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Method(s) |
|--------------------|-------------|--------------|-------------|--------|------------------|
| MW-14D-GW-20230926 | N | 2309476-001A | 09/26/2023 | WG | C |
| MW-14D-GW-20230926 | N | 2309476-001B | 09/26/2023 | WG | A, B |
| MW-14D-GW-20230926 | N | 2309476-001C | 09/26/2023 | WG | D, E |
| MW-14D-GW-20230926 | N | 2309476-001D | 09/26/2023 | WG | F |
| MW-18D-GW-20230926 | N | 2309476-002A | 09/26/2023 | WG | C |
| MW-18D-GW-20230926 | N | 2309476-002B | 09/26/2023 | WG | A, B |
| MW-18D-GW-20230926 | N | 2309476-002C | 09/26/2023 | WG | D, E |
| MW-18D-GW-20230926 | N | 2309476-002D | 09/26/2023 | WG | F |
| MW-17D-GW-20230927 | N | 2309483-001A | 09/27/2023 | WG | A, B |
| MW-17D-GW-20230927 | N | 2309483-001B | 09/27/2023 | WG | D, E |
| MW-17D-GW-20230927 | N | 2309483-001C | 09/27/2023 | WG | F |
| MW-17D-GW-20230927 | N | 2309483-001D | 09/27/2023 | WG | C |
| MW-8S-GW-20230927 | N | 2309483-002A | 09/27/2023 | WG | A, B |
| MW-8S-GW-20230927 | N | 2309483-002B | 09/27/2023 | WG | D, E |
| MW-8S-GW-20230927 | N | 2309483-002C | 09/27/2023 | WG | F |
| MW-8S-GW-20230927 | N | 2309483-002D | 09/27/2023 | WG | C |
| MW-13D-GW-20230927 | N | 2309483-003A | 09/27/2023 | WG | A, B |
| MW-13D-GW-20230927 | N | 2309483-003B | 09/27/2023 | WG | D, E |
| MW-13D-GW-20230927 | N | 2309483-003C | 09/27/2023 | WG | F |
| MW-13D-GW-20230927 | N | 2309483-003D | 09/27/2023 | WG | C |
| MW-15D-GW-20230927 | N | 2309483-004A | 09/27/2023 | WG | A, B |
| MW-15D-GW-20230927 | N | 2309483-004B | 09/27/2023 | WG | D, E |
| MW-15D-GW-20230927 | N | 2309483-004C | 09/27/2023 | WG | F |
| MW-15D-GW-20230927 | N | 2309483-004D | 09/27/2023 | WG | C |
| MW-16D-GW-20230927 | N | 2309483-005A | 09/27/2023 | WG | A, B |
| MW-16D-GW-20230927 | N | 2309483-005B | 09/27/2023 | WG | D, E |
| MW-16D-GW-20230927 | N | 2309483-005C | 09/27/2023 | WG | F |
| MW-16D-GW-20230927 | N | 2309483-005D | 09/27/2023 | WG | C |
| MW-4S-20230928 | N | 2309528-001A | 09/28/2023 | WG | A, B |
| MW-4S-20230928 | N | 2309528-001B | 09/28/2023 | WG | D, E |
| MW-4S-20230928 | N | 2309528-001C | 09/28/2023 | WG | F |
| MW-4S-20230928 | N | 2309528-001D | 09/28/2023 | WG | C |
| MW-6S-20230928 | N | 2309528-002A | 09/28/2023 | WG | A, B |
| MW-6S-20230928 | N | 2309528-002B | 09/28/2023 | WG | D, E |
| MW-6S-20230928 | N | 2309528-002C | 09/28/2023 | WG | F |
| MW-6S-20230928 | N | 2309528-002D | 09/28/2023 | WG | C |
| MW-9D-20230928 | N | 2309528-003A | 09/28/2023 | WG | A, B |
| MW-9D-20230928 | N | 2309528-003B | 09/28/2023 | WG | D, E |
| MW-9D-20230928 | N | 2309528-003C | 09/28/2023 | WG | F |
| MW-9D-20230928 | N | 2309528-003D | 09/28/2023 | WG | C |
| MW-12D-20230928 | N | 2309528-004A | 09/28/2023 | WG | A, B |
| MW-12D-20230928 | N | 2309528-004B | 09/28/2023 | WG | D, E |
| MW-12D-20230928 | N | 2309528-004C | 09/28/2023 | WG | F |
| MW-12D-20230928 | N | 2309528-004D | 09/28/2023 | WG | C |
| FD-01-20230928 | N | 2309528-005A | 09/28/2023 | WG | A, B |
| FD-01-20230928 | N | 2309528-005B | 09/28/2023 | WG | D, E |
| FD-01-20230928 | N | 2309528-005C | 09/28/2023 | WG | F |
| FD-01-20230928 | N | 2309528-005D | 09/28/2023 | WG | C |
| MW-14D-GW-20230926 | N | 309422-01 | 09/26/2023 | WG | G, H, I, J, K, L |
| MW-18D-GW-20230926 | N | 309422-02 | 09/26/2023 | WG | G, H, I, J, K, L |
| MW-17D-GW-20230927 | N | 309479-01 | 09/27/2023 | WG | G, H, I, J, K, L |
| MW-8S-GW-20230927 | N | 309479-02 | 09/27/2023 | WG | G, H, I, J, K, L |
| MW-13D-GW-20230927 | N | 309479-03 | 09/27/2023 | WG | G, H, I, J, K, L |
| MW-15D-GW-20230927 | N | 309479-04 | 09/27/2023 | WG | G, H, I, J, K, L |
| MW-16D-GW-20230927 | N | 309479-05 | 09/27/2023 | WG | G, H, I, J, K, L |

TABLE 1
SAMPLE MANAGEMENT
 WHIDBEY ISLAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Method(s) |
|-----------------|-------------|-----------|-------------|--------|------------------|
| MW-4S-20230928 | N | 309532-01 | 09/28/2023 | WG | G, H, I, J, K, L |
| MW-2S-20230928 | N | 309532-02 | 09/28/2023 | WG | G, H, J, K, L |
| MW-6S-20230928 | N | 309532-03 | 09/28/2023 | WG | G, H, I, J, K, L |
| MW-9D-20230928 | N | 309532-04 | 09/28/2023 | WG | G, H, I, J, K, L |
| MW-12D-20230928 | N | 309532-05 | 09/28/2023 | WG | G, H, I, J, K, L |
| FD-01-20230928 | FD | 309532-06 | 09/28/2023 | WG | G, H, I, J, K, L |

TABLE 2
METHOD DESCRIPTION
 WHIDBEY ISLAND, WASHINGTON

| Letter Code | Analytic Method | Method Description | Holding Time |
|-------------|-----------------|---|--|
| A | E300 | Inorganic Anions | 28 days for liquid unpreserved |
| | | Inorganic Anions (Nitrate, Nitrite) | 48 hours |
| B | SM2320B | Alkalinity | 14 days for liquid unpreserved |
| C | RSK175 | Dissolved Gases | 14 days for liquid, preserved |
| | | | 7 days for liquid unpreserved |
| D | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid unpreserved |
| E | SM5310C | Total Organic Carbon | 28 days for liquid, preserved |
| F | SM4500-S2-D | TOTAL SULFIDES | 7 days for liquid preserved |
| G | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved |
| | | | 7 days for liquid unpreserved |
| H | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved |
| | | | 7 days for liquid unpreserved |
| I | SM2540D | Total Suspended Solids | 7 days for liquid unpreserved |
| J | SW6020B | Metals | 180 days for liquid, preserved |
| K | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved |
| | | | 7 days for liquid unpreserved |
| L | SW8270E | Semivolatile Organic Compounds (SVOCs) | 7 days extraction / 40 days analysis for liquid, unpreserved |

TABLE 3
SUMMARY OF QUALIFIERS
WHIDBEY ISLAND, WASHINGTON

| SDG | Method | Basis | Sample ID | Lab ID | Analyte | Fraction | Reportable Result | Reported Result | Validated Result | Reason for Qualifier |
|---------|-------------|-------|--------------------|--------------|--|----------|-------------------|-----------------|------------------|----------------------|
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | 2-Methylnaphthalene | N | No | 52 | 52 R | EXE |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | 2-Methylnaphthalene | N | No | 52 | 52 R | EXE |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Naphthalene | N | No | 110 | 110 R | EXE |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Naphthalene | N | No | 110 | 110 R | EXE |
| 2309476 | E300 | NA | MW-14D-GW-20230926 | 2309476-001B | Nitrate (as N) | N | No | 5.86 | 5.86 R | EXE |
| 2309483 | E300 | NA | MW-15D-GW-20230927 | 2309483-004A | Nitrate (as N) | N | Yes | 10.8 | 10.8 J | EXE |
| 309479- | SW8270E | NA | MW-17D-GW-20230927 | 309479-01 | Naphthalene | N | No | 79 | 79 R | EXE |
| 309479- | SW8270E | NA | MW-17D-GW-20230927 | 309479-01 | Naphthalene | N | No | 79 | 79 R | EXE |
| 2309476 | E300 | NA | MW-18D-GW-20230926 | 2309476-002B | Nitrate (as N) | N | No | 12.3 | 12.3 R | EXE |
| 309479- | SW8270E | NA | MW-8S-GW-20230927 | 309479-02 | 1-Methylnaphthalene | N | No | 47 | 47 R | EXE |
| 309479- | SW8270E | NA | MW-8S-GW-20230927 | 309479-02 | 1-Methylnaphthalene | N | No | 47 | 47 R | EXE |
| 309479- | SW8270E | NA | MW-8S-GW-20230927 | 309479-02 | 2-Methylnaphthalene | N | No | 49 | 49 R | EXE |
| 309479- | SW8270E | NA | MW-8S-GW-20230927 | 309479-02 | 2-Methylnaphthalene | N | No | 49 | 49 R | EXE |
| 309532- | NWTPH-DX | NA | FD-01-20230928 | 309532-06 | Total Petroleum Hydrocarbons (C10-C25) DRO | N | Yes | 1900 | 1900 J | FDP |
| 309532- | SM2540D | NA | FD-01-20230928 | 309532-06 | Total Suspended Solids (TSS) | N | Yes | 49 | 49 J | FDP |
| 309532- | SW6020B | NA | FD-01-20230928 | 309532-06 | Lead | D | Yes | 2.72 | 2.72 J | FDP |
| 309532- | NWTPH-DX | NA | MW-9D-20230928 | 309532-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | N | Yes | 7500 | 7500 J | FDP |
| 309532- | SM2540D | NA | MW-9D-20230928 | 309532-04 | Total Suspended Solids (TSS) | N | Yes | 18 | 18 J | FDP |
| 309532- | SW6020B | NA | MW-9D-20230928 | 309532-04 | Lead | D | Yes | U | UJ | FDP |
| 2309476 | E300 | NA | MW-14D-GW-20230926 | 2309476-001B | Nitrate (as N) | N | Yes | 5.92 | 5.92 J | HTQ |
| 2309476 | E300 | NA | MW-18D-GW-20230926 | 2309476-002B | Nitrate (as N) | N | Yes | 15.5 | 15.5 J | HTQ |
| 2309528 | SM4500-NH3G | NA | FD-01-20230928 | 2309528-005B | Ammonia | N | Yes | U | R | MSD |
| 2309528 | SM4500-NH3G | NA | MW-12D-20230928 | 2309528-004B | Ammonia | N | Yes | U | R | MSD |
| 2309476 | SM4500-NH3G | NA | MW-14D-GW-20230926 | 2309476-001C | Ammonia | N | Yes | U | R | MSD |
| 2309476 | SM4500-NH3G | NA | MW-18D-GW-20230926 | 2309476-002C | Ammonia | N | Yes | U | R | MSD |
| 2309528 | SM4500-NH3G | NA | MW-4S-20230928 | 2309528-001B | Ammonia | N | Yes | U | R | MSD |
| 2309528 | SM4500-NH3G | NA | MW-6S-20230928 | 2309528-002B | Ammonia | N | Yes | U | R | MSD |
| 2309528 | SM4500-NH3G | NA | MW-9D-20230928 | 2309528-003B | Ammonia | N | Yes | U | R | MSD |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Pyrene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | FD-01-20230928 | 309532-06 | Pyrene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Acenaphthene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Acenaphthene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Acenaphthylene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Acenaphthylene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Fluorene | N | No | U | R | VCM |
| 309479- | SW8270E | NA | MW-13D-GW-20230927 | 309479-03 | Fluorene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-2S-20230928 | 309532-02 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-2S-20230928 | 309532-02 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-2S-20230928 | 309532-02 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-2S-20230928 | 309532-02 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Benzo(a)anthracene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Chrysene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Pyrene | N | No | U | R | VCM |
| 309532- | SW8270E | NA | MW-9D-20230928 | 309532-04 | Pyrene | N | No | U | R | VCM |

Notes:
MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.
VCM = Validator's choice of method.
HTQ = Holding time exceedance.
EXE = Result exceeds the calibration range.
FDP = Field duplicate qualifier due to an exceedance of the specified limits.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
R = The sample results were rejected as unusable; the compound may or may not be present in the sample.
UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 309532

Work Order Number: 2309528

October 09, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 5 sample(s) on 9/29/2023 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

CLIENT: Friedman & Bruya
Project: 309532
Work Order: 2309528

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2309528-001 | MW-4S | 09/28/2023 12:40 PM | 09/29/2023 9:40 AM |
| 2309528-002 | MW-6S | 09/28/2023 4:50 PM | 09/29/2023 9:40 AM |
| 2309528-003 | MW-9D | 09/28/2023 12:05 PM | 09/29/2023 9:40 AM |
| 2309528-004 | MW-12D | 09/28/2023 10:05 AM | 09/29/2023 9:40 AM |
| 2309528-005 | FD-01 | 09/28/2023 12:30 PM | 09/29/2023 9:40 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 309532

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

10/11/23 Rev 1: Includes corrections to sample ID's per client request

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 309532

Lab ID: 2309528-001

Collection Date: 9/28/2023 12:40:00 PM

Client Sample ID: MW-4S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 2:56:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 2:56:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 2:56:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|-------|-------|-----|------|----|----------------------|
| Chloride | 24.7 | 1.20 | D | mg/L | 10 | 10/3/2023 |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 8:51:00 PM |
| Nitrate (as N) | 0.202 | 0.200 | D | mg/L | 2 | 9/29/2023 8:51:00 PM |
| Sulfate | 13.8 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 8:51:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 3.90 | 0.700 | | mg/L | 1 | 10/3/2023 9:11:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 122 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:11:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 309532

Lab ID: 2309528-002

Collection Date: 9/28/2023 4:50:00 PM

Client Sample ID: MW-6S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 2:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 2:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 2:59:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|-------|-------|-----|------|----|-----------------------|
| Chloride | 24.7 | 1.20 | D | mg/L | 10 | 10/3/2023 12:23:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 9:15:00 PM |
| Nitrate (as N) | 0.432 | 0.200 | D | mg/L | 2 | 9/29/2023 9:15:00 PM |
| Sulfate | 8.40 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 9:15:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 2.83 | 0.700 | | mg/L | 1 | 10/3/2023 10:35:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 150 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:16:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 309532

Lab ID: 2309528-003

Collection Date: 9/28/2023 12:05:00 PM

Client Sample ID: MW-9D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:01:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:01:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:01:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 28.4 | 1.20 | D | mg/L | 10 | 10/3/2023 12:46:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 9:38:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 9:38:00 PM |
| Sulfate | 5.13 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 9:38:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 17.8 | 0.700 | | mg/L | 1 | 10/3/2023 11:06:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 182 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:21:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0645 | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|--------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 309532

Lab ID: 2309528-004

Collection Date: 9/28/2023 10:05:00 AM

Client Sample ID: MW-12D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:04:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:04:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:04:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 11.3 | 1.20 | D | mg/L | 10 | 10/3/2023 1:09:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 10:01:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 10:01:00 PM |
| Sulfate | 2.77 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 10:01:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 15.4 | 0.700 | | mg/L | 1 | 10/3/2023 11:27:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 257 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:36:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 309532

Lab ID: 2309528-005
Client Sample ID: FD-01

Collection Date: 9/28/2023 12:30:00 PM
Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:07:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:07:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:07:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 28.4 | 1.20 | D | mg/L | 10 | 10/3/2023 1:32:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 10:24:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 10:24:00 PM |
| Sulfate | 5.18 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 10:24:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 18.0 | 0.700 | | mg/L | 1 | 10/4/2023 12:01:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 177 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:41:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0612 | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-R86938 | | SampType: MBLK | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: MBLKW | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814643 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | | ND | 2.50 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: LCS-R86938 | | SampType: LCS | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: LCSW | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814644 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | | 105 | 2.50 | 100.0 | 0 | 105 | 83.8 | 121 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: 2309528-002ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: MW-6S | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814817 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | | 152 | 2.50 | | | | | 150.5 | 1.23 | 20 | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-41680 | | SampType: MBLK | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | | |
| Client ID: MBLKW | | Batch ID: 41680 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814347 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-41680 | | SampType: LCS | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: LCSW | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814348 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.507 0.100 0.5000 0 101 78.3 120

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309476-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814327 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0 30

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309476-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814328 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0.5000 0 0 17 145 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309476-002CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814329 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0.5000 0 0 17 145 0 30 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309528-003BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: MW-9D | | Batch ID: 41680 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814340 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309528-003BMS | | SampType: MS | | Units: mg/L | | Prep Date: 10/4/2023 | | RunNo: 86927 | | | |
| Client ID: MW-9D | | Batch ID: 41680 | | | | Analysis Date: 10/4/2023 | | SeqNo: 1814341 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | 0.5000 | 0 | 0 | 17 | 145 | | | | S |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-41641 | SampType: MBLK | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
| Client ID: MBLKW | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815821 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-41641 | SampType: LCS | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
| Client ID: LCSW | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815822 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.767 | 0.120 | 0.7500 | 0 | 102 | 90 | 110 | | | | |
| Nitrite (as N) | 0.755 | 0.120 | 0.7500 | 0 | 101 | 90 | 110 | | | | |
| Nitrate (as N) | 0.719 | 0.100 | 0.7500 | 0 | 95.9 | 90 | 110 | | | | |
| Sulfate | 4.27 | 0.600 | 3.750 | 0 | 114 | 90 | 110 | | | | S |

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

| | | | | | | | | | | | |
|----------------------------|--------|-----------------|-----------|-------------|------|----------------------|--------------------------|-------------|--------------|----------------|------|
| Sample ID: 2309516-001EDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815824 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 15.0 | 0.240 | | | | | | 15.33 | 1.99 | 20 | DE |
| Nitrite (as N) | ND | 0.240 | | | | | | 0 | | 20 | D |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | D |
| Sulfate | ND | 1.20 | | | | | | 0 | | 20 | D |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309516-001EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | RunNo: 86981 | | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | SeqNo: 1815825 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.2 | 0.240 | 1.500 | 15.33 | 57.5 | 80 | 120 | | | | DES |
| Nitrite (as N) | 1.45 | 0.240 | 1.500 | 0 | 96.5 | 80 | 120 | | | | D |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2309516-001EMS | SampType: MS | Units: mg/L | | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | Batch ID: 41641 | | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815825 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrate (as N) | 1.38 | 0.200 | 1.500 | 0 | 92.1 | 80 | 120 | | | | D |
| Sulfate | 7.82 | 1.20 | 7.500 | 0 | 104 | 80 | 120 | | | | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|--------|----------|------|
| Sample ID: 2309516-001EMSD | SampType: MSD | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
| Client ID: BATCH | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815826 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.2 | 0.240 | 1.500 | 15.33 | 54.8 | 80 | 120 | 16.19 | 0.247 | 20 | DES |
| Nitrite (as N) | 1.45 | 0.240 | 1.500 | 0 | 96.8 | 80 | 120 | 1.448 | 0.276 | 20 | D |
| Nitrate (as N) | 1.39 | 0.200 | 1.500 | 0 | 92.4 | 80 | 120 | 1.382 | 0.289 | 20 | D |
| Sulfate | 7.82 | 1.20 | 7.500 | 0 | 104 | 80 | 120 | 7.820 | 0.0511 | 20 | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309537-005EDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | | Analysis Date: 9/30/2023 | | | SeqNo: 1815845 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 3.64 | 0.120 | | | | | | 3.641 | 0.110 | 20 | E |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.716 | 0.100 | | | | | | 0.7160 | 0 | 20 | |
| Sulfate | 10.4 | 0.600 | | | | | | 10.40 | 0.212 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2309537-005EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | Analysis Date: 9/30/2023 | | | SeqNo: 1815846 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 4.36 | 0.120 | 0.7500 | 3.641 | 95.7 | 80 | 120 | | | | E |
| Nitrite (as N) | 0.738 | 0.120 | 0.7500 | 0 | 98.4 | 80 | 120 | | | | |
| Nitrate (as N) | 1.49 | 0.100 | 0.7500 | 0.7160 | 104 | 80 | 120 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309537-005EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | RunNo: 86981 | | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | Analysis Date: 9/30/2023 | | SeqNo: 1815846 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 14.2 | 0.600 | 3.750 | 10.40 | 102 | 80 | 120 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| Sample ID: MB-R86923 | SampType: MBLK | Units: mg/L | | Prep Date: 10/2/2023 | RunNo: 86923 | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MBLKW | Batch ID: R86923 | | | Analysis Date: 10/2/2023 | SeqNo: 1814215 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| Sample ID: LCS-R86923 | SampType: LCS | Units: mg/L | | Prep Date: 10/2/2023 | RunNo: 86923 | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: LCSW | Batch ID: R86923 | | | Analysis Date: 10/2/2023 | SeqNo: 1814216 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.192 | 0.0500 | 0.2000 | 0 | 96.1 | 80 | 120 | | | | | |

| Sample ID: 2309476-001DDUP | SampType: DUP | Units: mg/L | | Prep Date: 10/2/2023 | RunNo: 86923 | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: R86923 | | | Analysis Date: 10/2/2023 | SeqNo: 1814218 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| Sample ID: 2309476-001DMS | SampType: MS | Units: mg/L | | Prep Date: 10/2/2023 | RunNo: 86923 | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: R86923 | | | Analysis Date: 10/2/2023 | SeqNo: 1814219 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.186 | 0.0500 | 0.2000 | 0 | 92.8 | 80 | 120 | | | | | |

| Sample ID: 2309476-001DMSD | SampType: MSD | Units: mg/L | | Prep Date: 10/2/2023 | RunNo: 86923 | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|--|
| Client ID: BATCH | Batch ID: R86923 | | | Analysis Date: 10/2/2023 | SeqNo: 1814220 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.187 | 0.0500 | 0.2000 | 0 | 93.3 | 80 | 120 | 0.1855 | 0.591 | 20 | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R86910 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: MBLKW | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813951 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R86910 | | SampType: LCS | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: LCSW | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813952 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 5.02 | 0.700 | 5.000 | 0 | 100 | 90 | 116 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309402-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813954 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|--|--|--|--|--|-------|------|----|--|
| Total Organic Carbon | 235 | 0.700 | | | | | | 219.8 | 6.75 | 20 | |
|----------------------|-----|-------|--|--|--|--|--|-------|------|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309402-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813955 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|-------|-------|-----|------|-----|--|--|--|---|
| Total Organic Carbon | 228 | 0.700 | 5.000 | 219.8 | 170 | 62.4 | 130 | | | | S |
|----------------------|-----|-------|-------|-------|-----|------|-----|--|--|--|---|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309402-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813956 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|-------|-------|-----|------|-----|-------|------|----|---|
| Total Organic Carbon | 235 | 0.700 | 5.000 | 219.8 | 310 | 62.4 | 130 | 228.3 | 3.01 | 30 | S |
|----------------------|-----|-------|-------|-------|-----|------|-----|-------|------|----|---|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|--|
| Sample ID: 2309483-002BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 10/3/2023 | | | | RunNo: 86910 | | |
| Client ID: BATCH | Batch ID: R86910 | | | | | Analysis Date: 10/3/2023 | | | | SeqNo: 1814242 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.89 | 0.700 | | | | | | 4.860 | 0.534 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309483-002BMS | | SampType: MS | | Units: mg/L | | Prep Date: 10/3/2023 | | RunNo: 86910 | | | |
| Client ID: BATCH | | Batch ID: R86910 | | | | Analysis Date: 10/3/2023 | | SeqNo: 1814243 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 9.67 | 0.700 | 5.000 | 4.860 | 96.1 | 62.4 | 130 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R86908 | | SampType: LCS | | | Units: ppmv | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: LCSW | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813905 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 983 | 0.00675 | 1,000 | 0 | 98.3 | 73.6 | 124 | | | | |
| Ethene | 1,000 | 0.0146 | 1,000 | 0 | 100 | 76.3 | 122 | | | | |
| Ethane | 969 | 0.0151 | 1,000 | 0 | 96.9 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R86908 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: MBLKW | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813893 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309476-001AREP | | SampType: REP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: BATCH | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813879 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00675 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------|----------|-----------------------------|---------------------------------|------|---------------------|-----------------------|--|
| Sample ID: 2309528-005DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: FD-01 | | Batch ID: R86908 | | | | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813962 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00675 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2309528
 Date Received: 9/29/2023 9:40:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 0.1 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of 1

Dispose after 30 days
Return samples
Will call with instructions

Notes

4

09/29

1151

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 11, 2023

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on September 29, 2023 from the Whidbey 0204475-001, F&BI 309532 project. There are 49 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1011R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 29, 2023 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey 0204475-001, F&BI 309532 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 309532 -01 | MW-4S |
| 309532 -02 | MW-2S |
| 309532 -03 | MW-6S |
| 309532 -04 | MW-9D |
| 309532 -05 | MW-12D |
| 309532 -06 | FD-01 |

The samples were sent to Fremont Analytical for anions, RSK 175 dissolved gases, sulfide, alkalinity, ammonia, and TOC analyses. The report is enclosed.

The 8260D calibration standard failed the acceptance criteria for acetone. The data were flagged accordingly.

An 8270E internal standard failed the acceptance criteria for samples MW-2S, MW-9D, and FD-01. The samples were diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

Date Extracted: 10/03/23

Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-4S 309532-01 1/10 | 12,000 | 128 |
| MW-2S 309532-02 | <100 | 125 |
| MW-6S 309532-03 | 210 | 129 |
| MW-9D 309532-04 1/20 | 73,000 | 130 |
| MW-12D 309532-05 1/20 | 50,000 | 133 |
| FD-01 309532-06 1/20 | 73,000 | 131 |
| Method Blank 03-2220 MB | <100 | 130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23
Date Received: 09/29/23
Project: Whidbey 0204475-001, F&BI 309532
Date Extracted: 10/02/23
Date Analyzed: 10/02/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-4S 309532-01 1/1.2 | 1,300 x | <300 | 102 |
| MW-2S 309532-02 | 460 x | 910 x | 84 |
| MW-6S 309532-03 1/1.3 | 80 x | <320 | 103 |
| MW-9D 309532-04 | 7,500 x | <250 | 95 |
| MW-12D 309532-05 | 5,100 x | <250 | 103 |
| FD-01 309532-06 | 1,900 x | <250 | 83 |
| Method Blank 03-2353 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-01.176 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 3.26 |
| Lead | <1 |
| Manganese | 464 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S f | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-02.173 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 1.50 |
| Lead | <1 |
| Manganese | 9.27 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-03.177 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 12.2 |
| Lead | <1 |
| Manganese | 138 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-04.178 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 22.3 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 x100 |
| Date Analyzed: | 10/04/23 | Data File: | 309532-04 x100.041 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,660 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-05.185 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 18.9 |
| Lead | 2.35 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 x100 |
| Date Analyzed: | 10/04/23 | Data File: | 309532-05 x100.042 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 4,300 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-06.188 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 28.5 |
| Lead | 2.72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 x100 |
| Date Analyzed: | 10/03/23 | Data File: | 309532-06 x100.068 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,870 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-770 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-770 mb.158 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|----------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-771 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-771 mb.160 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-01.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 3.82 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-02.126 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.95 |
| Lead | 1.70 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-03.127 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 5.49 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-04.128 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 49.6 |
| Lead | 12.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-05.137 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 21.1 |
| Lead | 2.72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-06.138 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 49.2 |
| Lead | 12.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-765 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-765 mb.061 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-4S
 Date Received: 09/29/23
 Date Extracted: 10/02/23
 Date Analyzed: 10/02/23
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey 0204475-001
 Lab ID: 309532-01 1/20
 Data File: 100226.D
 Instrument: GCMS11
 Operator: LM

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <20 | 1,3-Dichloropropane | <20 |
| Chloromethane | <200 | Tetrachloroethene | <20 |
| Vinyl chloride | <0.4 | Dibromochloromethane | <10 |
| Bromomethane | <100 | 1,2-Dibromoethane (EDB) | <0.2 |
| Chloroethane | <20 | Chlorobenzene | <20 |
| Trichlorofluoromethane | <20 | Ethylbenzene | <20 |
| Acetone | <1,000 ca | 1,1,1,2-Tetrachloroethane | <20 |
| 1,1-Dichloroethene | <20 | m,p-Xylene | <40 |
| Hexane | <100 | o-Xylene | <20 |
| Methylene chloride | <100 | Styrene | <20 |
| Methyl t-butyl ether (MTBE) | <20 | Isopropylbenzene | 79 |
| trans-1,2-Dichloroethene | <20 | Bromoform | <100 |
| 1,1-Dichloroethane | <20 | n-Propylbenzene | 160 |
| 2,2-Dichloropropane | <20 | Bromobenzene | <20 |
| cis-1,2-Dichloroethene | <20 | 1,3,5-Trimethylbenzene | 350 |
| Chloroform | <20 | 1,1,2,2-Tetrachloroethane | <4 |
| 2-Butanone (MEK) | <400 | 1,2,3-Trichloropropane | <20 |
| 1,2-Dichloroethane (EDC) | <4 | 2-Chlorotoluene | <20 |
| 1,1,1-Trichloroethane | <20 | 4-Chlorotoluene | <20 |
| 1,1-Dichloropropene | <20 | tert-Butylbenzene | <20 |
| Carbon tetrachloride | <10 | 1,2,4-Trimethylbenzene | 1,400 |
| Benzene | <7 | sec-Butylbenzene | <20 |
| Trichloroethene | <10 | p-Isopropyltoluene | <20 |
| 1,2-Dichloropropane | <20 | 1,3-Dichlorobenzene | <20 |
| Bromodichloromethane | <10 | 1,4-Dichlorobenzene | <20 |
| Dibromomethane | <20 | 1,2-Dichlorobenzene | <20 |
| 4-Methyl-2-pentanone | <200 | 1,2-Dibromo-3-chloropropane | <200 |
| cis-1,3-Dichloropropene | <8 | 1,2,4-Trichlorobenzene | <20 |
| Toluene | <20 | Hexachlorobutadiene | <10 |
| trans-1,3-Dichloropropene | <8 | Naphthalene | <20 |
| 1,1,2-Trichloroethane | <10 | 1,2,3-Trichlorobenzene | <20 |
| 2-Hexanone | <200 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 100224.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 98 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-6S
 Date Received: 09/29/23
 Date Extracted: 10/02/23
 Date Analyzed: 10/02/23
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey 0204475-001
 Lab ID: 309532-03
 Data File: 100225.D
 Instrument: GCMS11
 Operator: LM

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 7.4 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 7.3 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 1.1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 2.4 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 12 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 5.7 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100227.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 2,700 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 11,000 |
| Hexane | <500 | o-Xylene | 5,000 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | 100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 290 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 720 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,500 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,500 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 810 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100228.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 1,900 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 7,200 |
| Hexane | <500 | o-Xylene | 2,800 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 180 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 570 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,000 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 3,100 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 700 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100229.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 99 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 2,600 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 11,000 |
| Hexane | <500 | o-Xylene | 4,800 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | 100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 280 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 720 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,500 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,500 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 820 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 03-2304 mb |
| Date Analyzed: | 10/02/23 | Data File: | 100208.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 100224.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 84 | 11 | 173 |
| 2-Fluorobiphenyl | 88 | 25 | 128 |
| 2,4,6-Tribromophenol | 116 | 10 | 140 |
| Terphenyl-d14 | 93 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.46 |
| 2-Methylnaphthalene | 0.43 |
| 1-Methylnaphthalene | 5.3 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.063 |
| Fluorene | 0.045 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 1/2 |
| Date Analyzed: | 10/03/23 | Data File: | 100229.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 11 | 173 |
| 2-Fluorobiphenyl | 60 | 25 | 128 |
| 2,4,6-Tribromophenol | 92 | 10 | 140 |
| Terphenyl-d14 | 75 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.45 |
| 2-Methylnaphthalene | <0.4 |
| 1-Methylnaphthalene | <0.4 |
| Acenaphthylene | <0.04 |
| Acenaphthene | <0.04 |
| Fluorene | <0.04 |
| Phenanthrene | 0.077 |
| Anthracene | <0.04 |
| Fluoranthene | 0.093 |
| Benz(a)anthracene | <0.04 J |
| Chrysene | <0.04 J |
| Benzo(a)pyrene | 0.053 |
| Benzo(b)fluoranthene | <0.04 |
| Benzo(k)fluoranthene | <0.04 |
| Indeno(1,2,3-cd)pyrene | <0.04 |
| Dibenz(a,h)anthracene | <0.04 |
| Benzo(g,h,i)perylene | <0.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 1/4 |
| Date Analyzed: | 10/03/23 | Data File: | 100308.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 d | 11 | 173 |
| 2-Fluorobiphenyl | 62 d | 25 | 128 |
| 2,4,6-Tribromophenol | 98 d | 10 | 140 |
| Terphenyl-d14 | 81 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|-------------------|-----------------------------|
| Pyrene | 0.087 |
| Benz(a)anthracene | <0.08 |
| Chrysene | <0.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/03/23 | Data File: | 100307.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 11 | 173 |
| 2-Fluorobiphenyl | 78 | 25 | 128 |
| 2,4,6-Tribromophenol | 96 | 10 | 140 |
| Terphenyl-d14 | 102 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.52 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.030 |
| Anthracene | <0.02 |
| Fluoranthene | 0.023 |
| Pyrene | 0.056 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 100225.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 61 | 11 | 173 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 112 | 10 | 140 |
| Terphenyl-d14 | 84 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.24 |
| Fluorene | 0.74 |
| Phenanthrene | 1.1 |
| Anthracene | 0.50 |
| Fluoranthene | 0.15 |
| Pyrene | 0.24 J |
| Benz(a)anthracene | 0.19 J |
| Chrysene | 0.066 J |
| Benzo(a)pyrene | 0.16 |
| Benzo(b)fluoranthene | 0.077 |
| Benzo(k)fluoranthene | 0.034 |
| Indeno(1,2,3-cd)pyrene | 0.037 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.064 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 1/200 |
| Date Analyzed: | 10/03/23 | Data File: | 100312.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 100 d | 11 | 173 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 0 d | 10 | 140 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 550 |
| 2-Methylnaphthalene | 220 |
| 1-Methylnaphthalene | 100 |
| Pyrene | <4 |
| Benz(a)anthracene | <4 |
| Chrysene | <4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/03/23 | Data File: | 100226.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 72 | 11 | 173 |
| 2-Fluorobiphenyl | 84 | 25 | 128 |
| 2,4,6-Tribromophenol | 120 | 10 | 140 |
| Terphenyl-d14 | 86 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.083 |
| Fluorene | 0.10 |
| Phenanthrene | 0.16 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 1/100 |
| Date Analyzed: | 10/03/23 | Data File: | 100314.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 d | 11 | 173 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 173 d | 10 | 140 |
| Terphenyl-d14 | 70 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 360 |
| 2-Methylnaphthalene | 94 |
| 1-Methylnaphthalene | 40 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/03/23 | Data File: | 100227.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 11 | 173 |
| 2-Fluorobiphenyl | 78 | 25 | 128 |
| 2,4,6-Tribromophenol | 111 | 10 | 140 |
| Terphenyl-d14 | 80 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.20 |
| Fluorene | 0.63 |
| Phenanthrene | 0.97 |
| Anthracene | 0.42 |
| Fluoranthene | 0.14 |
| Pyrene | 0.20 J |
| Benz(a)anthracene | 0.16 J |
| Chrysene | 0.056 J |
| Benzo(a)pyrene | 0.14 |
| Benzo(b)fluoranthene | 0.071 |
| Benzo(k)fluoranthene | 0.030 |
| Indeno(1,2,3-cd)pyrene | 0.027 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.052 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 1/200 |
| Date Analyzed: | 10/03/23 | Data File: | 100313.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 d | 11 | 173 |
| 2-Fluorobiphenyl | 60 d | 25 | 128 |
| 2,4,6-Tribromophenol | 0 d | 10 | 140 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 520 |
| 2-Methylnaphthalene | 200 |
| 1-Methylnaphthalene | 95 |
| Pyrene | <4 |
| Benz(a)anthracene | <4 |
| Chrysene | <4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 03-2352 mb |
| Date Analyzed: | 10/02/23 | Data File: | 100206.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 94 | 11 | 173 |
| 2-Fluorobiphenyl | 93 | 25 | 128 |
| 2,4,6-Tribromophenol | 78 | 10 | 140 |
| Terphenyl-d14 | 103 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

Date Extracted: 10/02/23

Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-4S 309532-01 | <5 |
| MW-6S 309532-03 | <5 |
| MW-9D 309532-04 | 18 |
| MW-12D 309532-05 | 42 |
| FD-01 309532-06 | 49 |
| Method Blank I3-768 | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 309532-03 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | 210 | 200 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 128 | 128 | 72-139 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 309501-07 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 1.89 | 98 | 97 | 75-125 | 1 |
| Lead | ug/L (ppb) | 10 | <1 | 78 | 77 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 4,560 | 0 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 96 | 80-120 |
| Lead | ug/L (ppb) | 10 | 99 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 309532-05 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 18.9 | 102 b | 97 b | 75-125 | 5 b |
| Lead | ug/L (ppb) | 10 | 2.35 | 85 b | 84 b | 75-125 | 1 b |
| Manganese | ug/L (ppb) | 20 | 3,770 | 147 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 94 | 80-120 |
| Lead | ug/L (ppb) | 10 | 96 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 309532-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 3.82 | 104 b | 101 b | 75-125 | 3 b |
| Lead | ug/L (ppb) | 10 | <1 | 89 | 90 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 97 | 80-120 |
| Lead | ug/L (ppb) | 10 | 92 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Chloromethane | ug/L (ppb) | 10 | 99 | 102 | 59-132 | 3 |
| Vinyl chloride | ug/L (ppb) | 10 | 102 | 102 | 64-142 | 0 |
| Bromomethane | ug/L (ppb) | 10 | 107 | 107 | 50-197 | 0 |
| Chloroethane | ug/L (ppb) | 10 | 105 | 109 | 70-130 | 4 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 100 | 102 | 51-159 | 2 |
| Acetone | ug/L (ppb) | 50 | 50 | 52 | 10-140 | 4 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 96 | 99 | 64-140 | 3 |
| Hexane | ug/L (ppb) | 10 | 92 | 85 | 54-136 | 8 |
| Methylene chloride | ug/L (ppb) | 10 | 92 | 96 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 97 | 100 | 70-130 | 3 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 107 | 109 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 96 | 98 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 105 | 105 | 64-148 | 0 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 106 | 111 | 70-130 | 5 |
| Chloroform | ug/L (ppb) | 10 | 94 | 96 | 70-130 | 2 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 70 | 72 | 47-112 | 3 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 98 | 96 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 95 | 70-130 | 0 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 98 | 100 | 70-130 | 2 |
| Benzene | ug/L (ppb) | 10 | 105 | 105 | 70-130 | 0 |
| Trichloroethene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| Dibromomethane | ug/L (ppb) | 10 | 98 | 98 | 70-130 | 0 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 101 | 103 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 101 | 100 | 69-131 | 1 |
| Toluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| 2-Hexanone | ug/L (ppb) | 50 | 86 | 87 | 45-138 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 106 | 100 | 70-130 | 6 |
| Tetrachloroethene | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 106 | 60-148 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 105 | 102 | 70-130 | 3 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 107 | 106 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| m,p-Xylene | ug/L (ppb) | 20 | 103 | 103 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| Styrene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| Isopropylbenzene | ug/L (ppb) | 10 | 102 | 104 | 70-130 | 2 |
| Bromoform | ug/L (ppb) | 10 | 105 | 100 | 69-138 | 5 |
| n-Propylbenzene | ug/L (ppb) | 10 | 99 | 101 | 70-130 | 2 |
| Bromobenzene | ug/L (ppb) | 10 | 99 | 104 | 70-130 | 5 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 100 | 103 | 70-130 | 3 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 103 | 107 | 70-130 | 4 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 101 | 102 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 103 | 104 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 96 | 70-130 | 4 |
| Naphthalene | ug/L (ppb) | 10 | 102 | 102 | 70-130 | 0 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 103 | 99 | 70-130 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 75 | 68 | 62-97 | 10 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 81 | 71 | 64-101 | 13 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 81 | 71 | 64-103 | 13 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 77 | 70-130 | 4 |
| Acenaphthene | ug/L (ppb) | 5 | 80 | 75 | 70-130 | 6 |
| Fluorene | ug/L (ppb) | 5 | 84 | 81 | 70-130 | 4 |
| Phenanthrene | ug/L (ppb) | 5 | 91 | 88 | 70-130 | 3 |
| Anthracene | ug/L (ppb) | 5 | 87 | 83 | 70-130 | 5 |
| Fluoranthene | ug/L (ppb) | 5 | 96 | 92 | 70-130 | 4 |
| Pyrene | ug/L (ppb) | 5 | 95 | 95 | 70-130 | 0 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Chrysene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 91 | 91 | 70-130 | 0 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 91 | 90 | 70-130 | 1 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 105 | 93 | 70-130 | 12 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 100 | 92 | 70-130 | 8 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 102 | 95 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 309493-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 3.5 | 3.5 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 82 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

309532

SAMPLE CHAIN OF CUSTODY

09-29-23

Page # of

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Report To Heather Good Victoria PehlmanCompany Heather Good Victoria Pehlman

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature)

PROJECT NAME

Wildfire

PO #

2024475-001

REMARKS

INVOICE TO

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

Project specific RLS? - Yes / No

ANALYSES REQUESTED

Sample ID

Lab ID

Date Sampled

Time Sampled

Sample Type

of Jars

NWTPH-Dx

NWTPH-Gx

~~MTBE~~
~~BTEX-EPA 8021~~
~~EPR/EDC~~
~~NWTPH-Heid~~

VOCs EPA 8260

PAHs EPA 8270

PCBs EPA 8082

MEEISSNot/Dis. As PbMNA Parameters* insufficient volume for tests
Notes
ME
10/10/23MW-4501A-Q9/28/231240h2o17XXXXXXXXXXXXXXXXXXXMW-2562A-F1400165017XXXXXXXXXXXXXXXXXXXMW-6503A-Q120517XXXXXXXXXXXXXXXXXXXMW-9D04120517XXXXXXXXXXXXXXXXXXXMW-12D05100517XXXXXXXXXXXXXXXXXXXFD-0106123017XXXXXXXXXXXXXXXXXXX

Samples received at 4

chloride sulfate
nitrate, nitrite
ammonia, TOL
potassium sulfate
isolated manganese

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Relinquished by: _____

Received by: _____

Received by: _____

Friedman & Bruya, Inc.
Ph. (206) 285-8282



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 309532
Work Order Number: 2309528

October 09, 2023

Attention Michael Erdahl:

Fremont Analytical, Inc. received 5 sample(s) on 9/29/2023 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 309532
Work Order: 2309528

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2309528-001 | MW-45 | 09/28/2023 12:40 PM | 09/29/2023 9:40 AM |
| 2309528-002 | MW-65 | 09/28/2023 4:50 PM | 09/29/2023 9:40 AM |
| 2309528-003 | MW-9D | 09/28/2023 12:05 PM | 09/29/2023 9:40 AM |
| 2309528-004 | MW-12D | 09/28/2023 10:05 AM | 09/29/2023 9:40 AM |
| 2309528-005 | FD-01 | 09/28/2023 12:30 PM | 09/29/2023 9:40 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 309532

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya

Project: 309532

Lab ID: 2309528-001

Collection Date: 9/28/2023 12:40:00 PM

Client Sample ID: MW-45

Matrix: Water

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 2:56:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 2:56:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 2:56:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|-------|-------|-----|------|----|----------------------|
| Chloride | 24.7 | 1.20 | D | mg/L | 10 | 10/3/2023 |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 8:51:00 PM |
| Nitrate (as N) | 0.202 | 0.200 | D | mg/L | 2 | 9/29/2023 8:51:00 PM |
| Sulfate | 13.8 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 8:51:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 3.90 | 0.700 | | mg/L | 1 | 10/3/2023 9:11:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 122 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:11:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya

Project: 309532

Lab ID: 2309528-002

Collection Date: 9/28/2023 4:50:00 PM

Client Sample ID: MW-65

Matrix: Water

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 2:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 2:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 2:59:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|-------|-------|-----|------|----|-----------------------|
| Chloride | 24.7 | 1.20 | D | mg/L | 10 | 10/3/2023 12:23:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 9:15:00 PM |
| Nitrate (as N) | 0.432 | 0.200 | D | mg/L | 2 | 9/29/2023 9:15:00 PM |
| Sulfate | 8.40 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 9:15:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 2.83 | 0.700 | | mg/L | 1 | 10/3/2023 10:35:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 150 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:16:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya

Project: 309532

Lab ID: 2309528-003

Collection Date: 9/28/2023 12:05:00 PM

Client Sample ID: MW-9D

Matrix: Water

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:01:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:01:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:01:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 28.4 | 1.20 | D | mg/L | 10 | 10/3/2023 12:46:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 9:38:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 9:38:00 PM |
| Sulfate | 5.13 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 9:38:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 17.8 | 0.700 | | mg/L | 1 | 10/3/2023 11:06:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 182 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:21:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0645 | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|--------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya

Project: 309532

Lab ID: 2309528-004

Collection Date: 9/28/2023 10:05:00 AM

Client Sample ID: MW-12D

Matrix: Water

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:04:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:04:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:04:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 11.3 | 1.20 | D | mg/L | 10 | 10/3/2023 1:09:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 10:01:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 10:01:00 PM |
| Sulfate | 2.77 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 10:01:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 15.4 | 0.700 | | mg/L | 1 | 10/3/2023 11:27:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 257 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:36:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya

Project: 309532

Lab ID: 2309528-005

Collection Date: 9/28/2023 12:30:00 PM

Client Sample ID: FD-01

Matrix: Water

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R86908 Analyst: NR

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 10/3/2023 3:07:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 10/3/2023 3:07:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 10/3/2023 3:07:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 41641 Analyst: SS

| | | | | | | |
|----------------|------|-------|-----|------|----|-----------------------|
| Chloride | 28.4 | 1.20 | D | mg/L | 10 | 10/3/2023 1:32:00 AM |
| Nitrite (as N) | ND | 0.240 | D | mg/L | 2 | 9/29/2023 10:24:00 PM |
| Nitrate (as N) | ND | 0.200 | D | mg/L | 2 | 9/29/2023 10:24:00 PM |
| Sulfate | 5.18 | 1.20 | DQ* | mg/L | 2 | 9/29/2023 10:24:00 PM |

NOTES:

Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

* - Associated LCS is above acceptance criteria. Result may be high-biased.

Total Organic Carbon by SM 5310C

Batch ID: R86910 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 18.0 | 0.700 | | mg/L | 1 | 10/4/2023 12:01:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R86938 Analyst: ME

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 177 | 2.50 | | mg/L | 1 | 10/4/2023 4:28:34 PM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 41680 Analyst: SLL

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 10/4/2023 11:41:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R86923 Analyst: SLL

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0612 | 0.0500 | | mg/L | 1 | 10/2/2023 10:00:00 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-R86938 | | SampType: MBLK | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: MBLKW | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814643 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: LCS-R86938 | | SampType: LCS | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: LCSW | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814644 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 105 | 2.50 | 100.0 | 0 | 105 | 83.8 | 121 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: 2309528-002ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86938 | | | |
| Client ID: MW-65 | | Batch ID: R86938 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814817 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 152 | 2.50 | | | | | | 150.5 | 1.23 | 20 | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-41680 | | SampType: MBLK | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | | |
| Client ID: MBLKW | | Batch ID: 41680 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814347 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-41680 | | SampType: LCS | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: LCSW | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814348 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.507 0.100 0.5000 0 101 78.3 120

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309476-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | | | SeqNo: 1814327 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0 30

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309476-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814328 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0.5000 0 0 17 145 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309476-002CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | |
| Client ID: BATCH | | Batch ID: 41680 | | | Analysis Date: 10/4/2023 | | | | | SeqNo: 1814329 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.100 0.5000 0 0 17 145 0 30 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: 2309528-003BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 10/4/2023 | | | RunNo: 86927 | | | |
| Client ID: MW-9D | | Batch ID: 41680 | | | | | Analysis Date: 10/4/2023 | | | SeqNo: 1814340 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309528-003BMS | | SampType: MS | | Units: mg/L | | Prep Date: 10/4/2023 | | RunNo: 86927 | | | |
| Client ID: MW-9D | | Batch ID: 41680 | | | | Analysis Date: 10/4/2023 | | SeqNo: 1814341 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | 0.5000 | 0 | 0 | 17 | 145 | | | | S |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-41641 | SampType: MBLK | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
| Client ID: MBLKW | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815821 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-41641 | SampType: LCS | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
| Client ID: LCSW | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815822 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.767 | 0.120 | 0.7500 | 0 | 102 | 90 | 110 | | | | |
| Nitrite (as N) | 0.755 | 0.120 | 0.7500 | 0 | 101 | 90 | 110 | | | | |
| Nitrate (as N) | 0.719 | 0.100 | 0.7500 | 0 | 95.9 | 90 | 110 | | | | |
| Sulfate | 4.27 | 0.600 | 3.750 | 0 | 114 | 90 | 110 | | | | S |

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

| Sample ID: 2309516-001EDUP | SampType: DUP | Units: mg/L | | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | | SeqNo: 1815824 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 15.0 | 0.240 | | | | | | 15.33 | 1.99 | 20 | DE |
| Nitrite (as N) | ND | 0.240 | | | | | | 0 | | 20 | D |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | D |
| Sulfate | ND | 1.20 | | | | | | 0 | | 20 | D |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309516-001EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | RunNo: 86981 | | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | SeqNo: 1815825 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.2 | 0.240 | 1.500 | 15.33 | 57.5 | 80 | 120 | | | | DES |
| Nitrite (as N) | 1.45 | 0.240 | 1.500 | 0 | 96.5 | 80 | 120 | | | | D |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309516-001EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | RunNo: 86981 | | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | Analysis Date: 9/29/2023 | | SeqNo: 1815825 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrate (as N) | 1.38 | 0.200 | 1.500 | 0 | 92.1 | 80 | 120 | | | | D |
| Sulfate | 7.82 | 1.20 | 7.500 | 0 | 104 | 80 | 120 | | | | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2309516-001EMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | Analysis Date: 9/29/2023 | | | SeqNo: 1815826 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.2 | 0.240 | 1.500 | 15.33 | 54.8 | 80 | 120 | 16.19 | 0.247 | 20 | DES |
| Nitrite (as N) | 1.45 | 0.240 | 1.500 | 0 | 96.8 | 80 | 120 | 1.448 | 0.276 | 20 | D |
| Nitrate (as N) | 1.39 | 0.200 | 1.500 | 0 | 92.4 | 80 | 120 | 1.382 | 0.289 | 20 | D |
| Sulfate | 7.82 | 1.20 | 7.500 | 0 | 104 | 80 | 120 | 7.820 | 0.0511 | 20 | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309537-005EDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | | Analysis Date: 9/30/2023 | | | SeqNo: 1815845 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 3.64 | 0.120 | | | | | | 3.641 | 0.110 | 20 | E |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.716 | 0.100 | | | | | | 0.7160 | 0 | 20 | |
| Sulfate | 10.4 | 0.600 | | | | | | 10.40 | 0.212 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2309537-005EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | | RunNo: 86981 | | |
| Client ID: BATCH | | Batch ID: 41641 | | Analysis Date: 9/30/2023 | | | SeqNo: 1815846 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 4.36 | 0.120 | 0.7500 | 3.641 | 95.7 | 80 | 120 | | | | E |
| Nitrite (as N) | 0.738 | 0.120 | 0.7500 | 0 | 98.4 | 80 | 120 | | | | |
| Nitrate (as N) | 1.49 | 0.100 | 0.7500 | 0.7160 | 104 | 80 | 120 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309537-005EMS | | SampType: MS | | Units: mg/L | | Prep Date: 9/29/2023 | | RunNo: 86981 | | | |
| Client ID: BATCH | | Batch ID: 41641 | | | | Analysis Date: 9/30/2023 | | SeqNo: 1815846 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 14.2 | 0.600 | 3.750 | 10.40 | 102 | 80 | 120 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R86923 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 10/2/2023 | | | RunNo: 86923 | | |
| Client ID: MBLKW | | Batch ID: R86923 | | | | | | Analysis Date: 10/2/2023 | | | SeqNo: 1814215 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R86923 | | SampType: LCS | | | Units: mg/L | | Prep Date: 10/2/2023 | | | RunNo: 86923 | | |
| Client ID: LCSW | | Batch ID: R86923 | | | | | | Analysis Date: 10/2/2023 | | | SeqNo: 1814216 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.192 | 0.0500 | 0.2000 | 0 | 96.1 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309476-001DDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 10/2/2023 | | | RunNo: 86923 | | |
| Client ID: BATCH | | Batch ID: R86923 | | | | | | Analysis Date: 10/2/2023 | | | SeqNo: 1814218 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309476-001DMS | | SampType: MS | | | Units: mg/L | | Prep Date: 10/2/2023 | | | RunNo: 86923 | | |
| Client ID: BATCH | | Batch ID: R86923 | | | | | | Analysis Date: 10/2/2023 | | | SeqNo: 1814219 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.186 | 0.0500 | 0.2000 | 0 | 92.8 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2309476-001DMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 10/2/2023 | | | RunNo: 86923 | | |
| Client ID: BATCH | | Batch ID: R86923 | | | | | | Analysis Date: 10/2/2023 | | | SeqNo: 1814220 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.187 | 0.0500 | 0.2000 | 0 | 93.3 | 80 | 120 | 0.1855 | 0.591 | 20 | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R86910 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: MBLKW | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813951 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R86910 | | SampType: LCS | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: LCSW | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813952 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 5.02 | 0.700 | 5.000 | 0 | 100 | 90 | 116 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309402-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813954 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|--|--|--|--|--|-------|------|----|--|
| Total Organic Carbon | 235 | 0.700 | | | | | | 219.8 | 6.75 | 20 | |
|----------------------|-----|-------|--|--|--|--|--|-------|------|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309402-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813955 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|-------|-------|-----|------|-----|--|--|--|---|
| Total Organic Carbon | 228 | 0.700 | 5.000 | 219.8 | 170 | 62.4 | 130 | | | | S |
|----------------------|-----|-------|-------|-------|-----|------|-----|--|--|--|---|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309402-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86910 | | |
| Client ID: BATCH | | Batch ID: R86910 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813956 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|-----|-------|-------|-------|-----|------|-----|-------|------|----|---|
| Total Organic Carbon | 235 | 0.700 | 5.000 | 219.8 | 310 | 62.4 | 130 | 228.3 | 3.01 | 30 | S |
|----------------------|-----|-------|-------|-------|-----|------|-----|-------|------|----|---|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|--|
| Sample ID: 2309483-002BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 10/3/2023 | | | | RunNo: 86910 | | |
| Client ID: BATCH | Batch ID: R86910 | | | | | Analysis Date: 10/3/2023 | | | | SeqNo: 1814242 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.89 | 0.700 | | | | | | 4.860 | 0.534 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2309483-002BMS | | SampType: MS | | Units: mg/L | | Prep Date: 10/3/2023 | | RunNo: 86910 | | | |
| Client ID: BATCH | | Batch ID: R86910 | | | | Analysis Date: 10/3/2023 | | SeqNo: 1814243 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 9.66 | 0.700 | 5.000 | 4.860 | 96.1 | 62.4 | 130 | | | | |

Work Order: 2309528
CLIENT: Friedman & Bruya
Project: 309532

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R86908 | | SampType: LCS | | | Units: ppmv | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: LCSW | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813905 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 983 | 0.00675 | 1,000 | 0 | 98.3 | 73.6 | 124 | | | | |
| Ethene | 1,000 | 0.0146 | 1,000 | 0 | 100 | 76.3 | 122 | | | | |
| Ethane | 969 | 0.0151 | 1,000 | 0 | 96.9 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R86908 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: MBLKW | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813893 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2309476-001AREP | | SampType: REP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: BATCH | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | | | SeqNo: 1813879 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00675 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2309528-005DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 10/3/2023 | | | RunNo: 86908 | | |
| Client ID: FD-01 | | Batch ID: R86908 | | | Analysis Date: 10/3/2023 | | | SeqNo: 1813962 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00675 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2309528
 Date Received: 9/29/2023 9:40:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 0.1 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 21, 2023

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on September 29, 2023 from the Whidbey 0204475-001, F&BI 309532 project. Per your request, the 8260D trichloroethene reporting limit has been lowered to <4 ug/L for the samples above that value.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1011R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
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5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 11, 2023

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on September 29, 2023 from the Whidbey 0204475-001, F&BI 309532 project. There are 49 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1011R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 29, 2023 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey 0204475-001, F&BI 309532 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 309532 -01 | MW-4S |
| 309532 -02 | MW-2S |
| 309532 -03 | MW-6S |
| 309532 -04 | MW-9D |
| 309532 -05 | MW-12D |
| 309532 -06 | FD-01 |

The samples were sent to Fremont Analytical for anions, RSK 175 dissolved gases, sulfide, alkalinity, ammonia, and TOC analyses. The report is enclosed.

The 8260D calibration standard failed the acceptance criteria for acetone. The data were flagged accordingly.

An 8270E internal standard failed the acceptance criteria for samples MW-2S, MW-9D, and FD-01. The samples were diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

Date Extracted: 10/03/23

Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-4S 309532-01 1/10 | 12,000 | 128 |
| MW-2S 309532-02 | <100 | 125 |
| MW-6S 309532-03 | 210 | 129 |
| MW-9D 309532-04 1/20 | 73,000 | 130 |
| MW-12D 309532-05 1/20 | 50,000 | 133 |
| FD-01 309532-06 1/20 | 73,000 | 131 |
| Method Blank 03-2220 MB | <100 | 130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

Date Extracted: 10/02/23

Date Analyzed: 10/02/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-4S 309532-01 1/1.2 | 1,300 x | <300 | 102 |
| MW-2S 309532-02 | 460 x | 910 x | 84 |
| MW-6S 309532-03 1/1.3 | 80 x | <320 | 103 |
| MW-9D 309532-04 | 7,500 x | <250 | 95 |
| MW-12D 309532-05 | 5,100 x | <250 | 103 |
| FD-01 309532-06 | 1,900 x | <250 | 83 |
| Method Blank 03-2353 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-01.176 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 3.26 |
| Lead | <1 |
| Manganese | 464 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S f | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-02.173 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 1.50 |
| Lead | <1 |
| Manganese | 9.27 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-03.177 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 12.2 |
| Lead | <1 |
| Manganese | 138 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-04.178 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 22.3 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 x100 |
| Date Analyzed: | 10/04/23 | Data File: | 309532-04 x100.041 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,660 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-05.185 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 18.9 |
| Lead | 2.35 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 x100 |
| Date Analyzed: | 10/04/23 | Data File: | 309532-05 x100.042 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 4,300 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-06.188 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 28.5 |
| Lead | 2.72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 x100 |
| Date Analyzed: | 10/03/23 | Data File: | 309532-06 x100.068 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,870 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-770 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-770 mb.158 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|----------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-771 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-771 mb.160 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-01.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 3.82 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-02.126 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.95 |
| Lead | 1.70 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-03.127 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 5.49 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-04.128 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 49.6 |
| Lead | 12.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-05.137 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 21.1 |
| Lead | 2.72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/02/23 | Data File: | 309532-06.138 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 49.2 |
| Lead | 12.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-765 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-765 mb.061 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-4S
 Date Received: 09/29/23
 Date Extracted: 10/02/23
 Date Analyzed: 10/02/23
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey 0204475-001
 Lab ID: 309532-01 1/20
 Data File: 100226.D
 Instrument: GCMS11
 Operator: LM

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <20 | 1,3-Dichloropropane | <20 |
| Chloromethane | <200 | Tetrachloroethene | <20 |
| Vinyl chloride | <0.4 | Dibromochloromethane | <10 |
| Bromomethane | <100 | 1,2-Dibromoethane (EDB) | <0.2 |
| Chloroethane | <20 | Chlorobenzene | <20 |
| Trichlorofluoromethane | <20 | Ethylbenzene | <20 |
| Acetone | <1,000 ca | 1,1,1,2-Tetrachloroethane | <20 |
| 1,1-Dichloroethene | <20 | m,p-Xylene | <40 |
| Hexane | <100 | o-Xylene | <20 |
| Methylene chloride | <100 | Styrene | <20 |
| Methyl t-butyl ether (MTBE) | <20 | Isopropylbenzene | 79 |
| trans-1,2-Dichloroethene | <20 | Bromoform | <100 |
| 1,1-Dichloroethane | <20 | n-Propylbenzene | 160 |
| 2,2-Dichloropropane | <20 | Bromobenzene | <20 |
| cis-1,2-Dichloroethene | <20 | 1,3,5-Trimethylbenzene | 350 |
| Chloroform | <20 | 1,1,2,2-Tetrachloroethane | <4 |
| 2-Butanone (MEK) | <400 | 1,2,3-Trichloropropane | <20 |
| 1,2-Dichloroethane (EDC) | <4 | 2-Chlorotoluene | <20 |
| 1,1,1-Trichloroethane | <20 | 4-Chlorotoluene | <20 |
| 1,1-Dichloropropene | <20 | tert-Butylbenzene | <20 |
| Carbon tetrachloride | <10 | 1,2,4-Trimethylbenzene | 1,400 |
| Benzene | <7 | sec-Butylbenzene | <20 |
| Trichloroethene | <4 j | p-Isopropyltoluene | <20 |
| 1,2-Dichloropropane | <20 | 1,3-Dichlorobenzene | <20 |
| Bromodichloromethane | <10 | 1,4-Dichlorobenzene | <20 |
| Dibromomethane | <20 | 1,2-Dichlorobenzene | <20 |
| 4-Methyl-2-pentanone | <200 | 1,2-Dibromo-3-chloropropane | <200 |
| cis-1,3-Dichloropropene | <8 | 1,2,4-Trichlorobenzene | <20 |
| Toluene | <20 | Hexachlorobutadiene | <10 |
| trans-1,3-Dichloropropene | <8 | Naphthalene | <20 |
| 1,1,2-Trichloroethane | <10 | 1,2,3-Trichlorobenzene | <20 |
| 2-Hexanone | <200 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 |
| Date Analyzed: | 10/02/23 | Data File: | 100224.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 98 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-6S
 Date Received: 09/29/23
 Date Extracted: 10/02/23
 Date Analyzed: 10/02/23
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey 0204475-001
 Lab ID: 309532-03
 Data File: 100225.D
 Instrument: GCMS11
 Operator: LM

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 7.4 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 7.3 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 1.1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 2.4 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 12 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 5.7 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100227.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 2,700 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 11,000 |
| Hexane | <500 | o-Xylene | 5,000 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | 100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 290 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 720 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,500 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <4 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,500 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 810 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-12D
Date Received: 09/29/23
Date Extracted: 10/02/23
Date Analyzed: 10/02/23
Matrix: Water
Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
Project: Whidbey 0204475-001
Lab ID: 309532-05 1/100
Data File: 100228.D
Instrument: GCMS11
Operator: LM

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 1,900 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 7,200 |
| Hexane | <500 | o-Xylene | 2,800 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 180 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 570 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,000 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <4 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 3,100 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 700 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100229.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 99 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 2,600 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 11,000 |
| Hexane | <500 | o-Xylene | 4,800 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | 100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 280 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 720 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,500 |
| Benzene | <35 | sec-Butylbenzene | <100 |
| Trichloroethene | <4 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,500 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 820 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 03-2304 mb |
| Date Analyzed: | 10/02/23 | Data File: | 100208.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.04 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-01 |
| Date Analyzed: | 10/02/23 | Data File: | 100224.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 84 | 11 | 173 |
| 2-Fluorobiphenyl | 88 | 25 | 128 |
| 2,4,6-Tribromophenol | 116 | 10 | 140 |
| Terphenyl-d14 | 93 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.46 |
| 2-Methylnaphthalene | 0.43 |
| 1-Methylnaphthalene | 5.3 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.063 |
| Fluorene | 0.045 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 1/2 |
| Date Analyzed: | 10/03/23 | Data File: | 100229.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 11 | 173 |
| 2-Fluorobiphenyl | 60 | 25 | 128 |
| 2,4,6-Tribromophenol | 92 | 10 | 140 |
| Terphenyl-d14 | 75 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.45 |
| 2-Methylnaphthalene | <0.4 |
| 1-Methylnaphthalene | <0.4 |
| Acenaphthylene | <0.04 |
| Acenaphthene | <0.04 |
| Fluorene | <0.04 |
| Phenanthrene | 0.077 |
| Anthracene | <0.04 |
| Fluoranthene | 0.093 |
| Benz(a)anthracene | <0.04 J |
| Chrysene | <0.04 J |
| Benzo(a)pyrene | 0.053 |
| Benzo(b)fluoranthene | <0.04 |
| Benzo(k)fluoranthene | <0.04 |
| Indeno(1,2,3-cd)pyrene | <0.04 |
| Dibenz(a,h)anthracene | <0.04 |
| Benzo(g,h,i)perylene | <0.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-02 1/4 |
| Date Analyzed: | 10/03/23 | Data File: | 100308.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 d | 11 | 173 |
| 2-Fluorobiphenyl | 62 d | 25 | 128 |
| 2,4,6-Tribromophenol | 98 d | 10 | 140 |
| Terphenyl-d14 | 81 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|-------------------|-----------------------------|
| Pyrene | 0.087 |
| Benz(a)anthracene | <0.08 |
| Chrysene | <0.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-03 |
| Date Analyzed: | 10/03/23 | Data File: | 100307.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 11 | 173 |
| 2-Fluorobiphenyl | 78 | 25 | 128 |
| 2,4,6-Tribromophenol | 96 | 10 | 140 |
| Terphenyl-d14 | 102 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.52 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.030 |
| Anthracene | <0.02 |
| Fluoranthene | 0.023 |
| Pyrene | 0.056 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 |
| Date Analyzed: | 10/02/23 | Data File: | 100225.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 61 | 11 | 173 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 112 | 10 | 140 |
| Terphenyl-d14 | 84 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.24 |
| Fluorene | 0.74 |
| Phenanthrene | 1.1 |
| Anthracene | 0.50 |
| Fluoranthene | 0.15 |
| Pyrene | 0.24 J |
| Benz(a)anthracene | 0.19 J |
| Chrysene | 0.066 J |
| Benzo(a)pyrene | 0.16 |
| Benzo(b)fluoranthene | 0.077 |
| Benzo(k)fluoranthene | 0.034 |
| Indeno(1,2,3-cd)pyrene | 0.037 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.064 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-04 1/200 |
| Date Analyzed: | 10/03/23 | Data File: | 100312.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 100 d | 11 | 173 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 0 d | 10 | 140 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 550 |
| 2-Methylnaphthalene | 220 |
| 1-Methylnaphthalene | 100 |
| Pyrene | <4 |
| Benz(a)anthracene | <4 |
| Chrysene | <4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 |
| Date Analyzed: | 10/03/23 | Data File: | 100226.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 72 | 11 | 173 |
| 2-Fluorobiphenyl | 84 | 25 | 128 |
| 2,4,6-Tribromophenol | 120 | 10 | 140 |
| Terphenyl-d14 | 86 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.083 |
| Fluorene | 0.10 |
| Phenanthrene | 0.16 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-05 1/100 |
| Date Analyzed: | 10/03/23 | Data File: | 100314.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 d | 11 | 173 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 173 d | 10 | 140 |
| Terphenyl-d14 | 70 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 360 |
| 2-Methylnaphthalene | 94 |
| 1-Methylnaphthalene | 40 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 |
| Date Analyzed: | 10/03/23 | Data File: | 100227.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 11 | 173 |
| 2-Fluorobiphenyl | 78 | 25 | 128 |
| 2,4,6-Tribromophenol | 111 | 10 | 140 |
| Terphenyl-d14 | 80 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.20 |
| Fluorene | 0.63 |
| Phenanthrene | 0.97 |
| Anthracene | 0.42 |
| Fluoranthene | 0.14 |
| Pyrene | 0.20 J |
| Benz(a)anthracene | 0.16 J |
| Chrysene | 0.056 J |
| Benzo(a)pyrene | 0.14 |
| Benzo(b)fluoranthene | 0.071 |
| Benzo(k)fluoranthene | 0.030 |
| Indeno(1,2,3-cd)pyrene | 0.027 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.052 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/29/23 | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 309532-06 1/200 |
| Date Analyzed: | 10/03/23 | Data File: | 100313.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 d | 11 | 173 |
| 2-Fluorobiphenyl | 60 d | 25 | 128 |
| 2,4,6-Tribromophenol | 0 d | 10 | 140 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 520 |
| 2-Methylnaphthalene | 200 |
| 1-Methylnaphthalene | 95 |
| Pyrene | <4 |
| Benz(a)anthracene | <4 |
| Chrysene | <4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey 0204475-001 |
| Date Extracted: | 10/02/23 | Lab ID: | 03-2352 mb |
| Date Analyzed: | 10/02/23 | Data File: | 100206.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 94 | 11 | 173 |
| 2-Fluorobiphenyl | 93 | 25 | 128 |
| 2,4,6-Tribromophenol | 78 | 10 | 140 |
| Terphenyl-d14 | 103 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

Date Extracted: 10/02/23

Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-4S 309532-01 | <5 |
| MW-6S 309532-03 | <5 |
| MW-9D 309532-04 | 18 |
| MW-12D 309532-05 | 42 |
| FD-01 309532-06 | 49 |
| Method Blank I3-768 | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 309532-03 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | 210 | 200 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 128 | 128 | 72-139 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 309501-07 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 1.89 | 98 | 97 | 75-125 | 1 |
| Lead | ug/L (ppb) | 10 | <1 | 78 | 77 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 4,560 | 0 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 96 | 80-120 |
| Lead | ug/L (ppb) | 10 | 99 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 309532-05 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 18.9 | 102 b | 97 b | 75-125 | 5 b |
| Lead | ug/L (ppb) | 10 | 2.35 | 85 b | 84 b | 75-125 | 1 b |
| Manganese | ug/L (ppb) | 20 | 3,770 | 147 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 94 | 80-120 |
| Lead | ug/L (ppb) | 10 | 96 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 309532-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 3.82 | 104 b | 101 b | 75-125 | 3 b |
| Lead | ug/L (ppb) | 10 | <1 | 89 | 90 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 97 | 80-120 |
| Lead | ug/L (ppb) | 10 | 92 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Chloromethane | ug/L (ppb) | 10 | 99 | 102 | 59-132 | 3 |
| Vinyl chloride | ug/L (ppb) | 10 | 102 | 102 | 64-142 | 0 |
| Bromomethane | ug/L (ppb) | 10 | 107 | 107 | 50-197 | 0 |
| Chloroethane | ug/L (ppb) | 10 | 105 | 109 | 70-130 | 4 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 100 | 102 | 51-159 | 2 |
| Acetone | ug/L (ppb) | 50 | 50 | 52 | 10-140 | 4 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 96 | 99 | 64-140 | 3 |
| Hexane | ug/L (ppb) | 10 | 92 | 85 | 54-136 | 8 |
| Methylene chloride | ug/L (ppb) | 10 | 92 | 96 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 97 | 100 | 70-130 | 3 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 107 | 109 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 96 | 98 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 105 | 105 | 64-148 | 0 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 106 | 111 | 70-130 | 5 |
| Chloroform | ug/L (ppb) | 10 | 94 | 96 | 70-130 | 2 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 70 | 72 | 47-112 | 3 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 98 | 96 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 95 | 70-130 | 0 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 98 | 100 | 70-130 | 2 |
| Benzene | ug/L (ppb) | 10 | 105 | 105 | 70-130 | 0 |
| Trichloroethene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| Dibromomethane | ug/L (ppb) | 10 | 98 | 98 | 70-130 | 0 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 101 | 103 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 101 | 100 | 69-131 | 1 |
| Toluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| 2-Hexanone | ug/L (ppb) | 50 | 86 | 87 | 45-138 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 106 | 100 | 70-130 | 6 |
| Tetrachloroethene | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 106 | 60-148 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 105 | 102 | 70-130 | 3 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 107 | 106 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| m,p-Xylene | ug/L (ppb) | 20 | 103 | 103 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| Styrene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| Isopropylbenzene | ug/L (ppb) | 10 | 102 | 104 | 70-130 | 2 |
| Bromoform | ug/L (ppb) | 10 | 105 | 100 | 69-138 | 5 |
| n-Propylbenzene | ug/L (ppb) | 10 | 99 | 101 | 70-130 | 2 |
| Bromobenzene | ug/L (ppb) | 10 | 99 | 104 | 70-130 | 5 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 100 | 103 | 70-130 | 3 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 103 | 107 | 70-130 | 4 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 101 | 102 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 103 | 104 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 96 | 70-130 | 4 |
| Naphthalene | ug/L (ppb) | 10 | 102 | 102 | 70-130 | 0 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 103 | 99 | 70-130 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 75 | 68 | 62-97 | 10 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 81 | 71 | 64-101 | 13 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 81 | 71 | 64-103 | 13 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 77 | 70-130 | 4 |
| Acenaphthene | ug/L (ppb) | 5 | 80 | 75 | 70-130 | 6 |
| Fluorene | ug/L (ppb) | 5 | 84 | 81 | 70-130 | 4 |
| Phenanthrene | ug/L (ppb) | 5 | 91 | 88 | 70-130 | 3 |
| Anthracene | ug/L (ppb) | 5 | 87 | 83 | 70-130 | 5 |
| Fluoranthene | ug/L (ppb) | 5 | 96 | 92 | 70-130 | 4 |
| Pyrene | ug/L (ppb) | 5 | 95 | 95 | 70-130 | 0 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Chrysene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 93 | 91 | 70-130 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 91 | 91 | 70-130 | 0 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 91 | 90 | 70-130 | 1 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 105 | 93 | 70-130 | 12 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 100 | 92 | 70-130 | 8 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 102 | 95 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/11/23

Date Received: 09/29/23

Project: Whidbey 0204475-001, F&BI 309532

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 309493-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 3.5 | 3.5 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 82 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

309532

SAMPLE CHAIN OF CUSTODY

09-29-23

Page # of

14/24

Report To Heather Good Victoria PehlmanCompany Heather Good Victoria Pehlman

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature)

PROJECT NAME

Wildfire

PO #

2024475-001

REMARKS

INVOICE TO

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

Project specific RLS? - Yes / No

ANALYSES REQUESTED

Sample ID

Lab ID

Date Sampled

Time Sampled

Sample Type

of Jars

NWTPH-Dx

NWTPH-Gx

MTBE
BTX-EPA 8021EPR/EDC
NWTPH-Dx

VOCs EPA 8260

PAHs EPA 8270

PCBs EPA 8082

MEETSSDot/Dix. As PbMNA Parameters* insufficient volume for tests
Notes
ME
10/10/23

Mw-45

01A-Q

9/28/23

1240

H2O

17

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Mw-25

62A-F

1400

1650

17

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Mw-65

03A-Q

1205

17

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Mw-9D

04

1205

17

X

X

X

X

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X

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X

X

X

X

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X

X

X

X

X

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Mw-12D

05

1230

17

X

X

X

X

X

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X

X

X

X

X

X

X

X

X

X

X

X

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X

X

X

FD-01

06

1230

17

X

X

X

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X

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X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Mw-12D

06

1230

17

X

X

X

X

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X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE TIME

Relinquished by: _____

Andrew NakamuraHA9/29/23 9:05

Received by: _____

Eric PaineFE B9/29/23 9:05

Received by: _____

Eric PaineFE B9/29/23 9:05Samples received at 4
chloride, sulfate, nitrate, ammonia, TOL, PCBs, lead, mercury, etc.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 21, 2023

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on September 28, 2023 from the Whidbey Island, F&BI 309479 project. Per your request, the 8260D trichloroethene reporting limits were lowered to <4 ug/L.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1009R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 9, 2023

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on September 28, 2023 from the Whidbey Island, F&BI 309479 project. There are 42 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1009R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 28, 2023 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Island, F&BI 309479 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 309479 -01 | MW-17D-GW |
| 309479 -02 | MW-8S-GW |
| 309479 -03 | MW-13D-GW |
| 309479 -04 | MW-15D-GW |
| 309479 -05 | MW-16D-GW |

The samples were sent to Fremont Analytical for anions, RSK 175 dissolved gases, sulfide, alkalinity, ammonia, and TOC analyses. The report is enclosed.

The 8260D calibration standard failed the acceptance criteria for acetone. The data were flagged accordingly.

An 8270E internal standard failed the acceptance criteria for sample MW-13D-GW. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

Date Extracted: 10/03/23

Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-17D-GW 309479-01 1/10 | 9,800 | 99 |
| MW-8S-GW 309479-02 1/10 | 4,700 | 114 |
| MW-13D-GW 309479-03 1/20 | 26,000 | 105 |
| MW-15D-GW 309479-04 | <100 | 100 |
| MW-16D-GW 309479-05 | <100 | 98 |
| Method Blank 03-2219 MB | <100 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

Date Extracted: 09/29/23

Date Analyzed: 09/29/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-17D-GW | 860 x | <250 | 140 |
| 309479-01 | | | |
| MW-8S-GW | 1,400 x | <250 | 135 |
| 309479-02 | | | |
| MW-13D-GW | 3,500 x | <300 | 132 |
| 309479-03 1/1.2 | | | |
| MW-15D-GW | 84 x | <300 | 137 |
| 309479-04 1/1.2 | | | |
| MW-16D-GW | 90 x | <320 | 137 |
| 309479-05 1/1.3 | | | |
| Method Blank | <50 | <250 | 140 |
| 03-2345 MB2 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-01 |
| Date Analyzed: | 10/02/23 | Data File: | 309479-01.189 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 36.7 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-01 x100 |
| Date Analyzed: | 10/03/23 | Data File: | 309479-01 x100.045 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 3,720 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-8S-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-02 |
| Date Analyzed: | 10/02/23 | Data File: | 309479-02.190 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 4.00 |
| Lead | <1 |
| Manganese | 502 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-03 |
| Date Analyzed: | 10/02/23 | Data File: | 309479-03.191 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 11.4 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-03 x100 |
| Date Analyzed: | 10/03/23 | Data File: | 309479-03 x100.056 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,510 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-15D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-04 |
| Date Analyzed: | 10/02/23 | Data File: | 309479-04.192 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 2.43 |
| Lead | <1 |
| Manganese | 5.47 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-16D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | 309479-05 |
| Date Analyzed: | 10/02/23 | Data File: | 309479-05.193 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 5.85 |
| Lead | <1 |
| Manganese | 2.40 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/02/23 | Lab ID: | I3-770 mb |
| Date Analyzed: | 10/02/23 | Data File: | I3-770 mb.158 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-01 |
| Date Analyzed: | 09/29/23 | Data File: | 309479-01.077 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 34.0 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-8S-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-02 |
| Date Analyzed: | 09/29/23 | Data File: | 309479-02.078 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 4.10 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-03 |
| Date Analyzed: | 09/29/23 | Data File: | 309479-03.079 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 11.4 |
| Lead | 1.12 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-15D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-04 |
| Date Analyzed: | 09/29/23 | Data File: | 309479-04.080 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 3.79 |
| Lead | 1.55 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-16D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-05 |
| Date Analyzed: | 09/29/23 | Data File: | 309479-05.084 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 5.38 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | I3-760 mb |
| Date Analyzed: | 09/29/23 | Data File: | I3-760 mb.136 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/03/23 | Lab ID: | 309479-01 1/10 |
| Date Analyzed: | 10/03/23 | Data File: | 100325.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 71 | 132 |
| Toluene-d8 | 116 | 68 | 139 |
| 4-Bromofluorobenzene | 97 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <10 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <10 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 540 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 1,200 |
| Hexane | <50 | o-Xylene | 360 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 16 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 43 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 79 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 290 |
| Benzene | 200 | sec-Butylbenzene | <10 |
| Trichloroethene | 11 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | 430 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 130 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-8S-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/05/23 | Lab ID: | 309479-02 |
| Date Analyzed: | 10/05/23 | Data File: | 100510.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | 54 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 59 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 60 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 150 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | 67 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 130 |
| Benzene | <0.35 | sec-Butylbenzene | 8.4 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | 4.2 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 28 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/03/23 | Lab ID: | 309479-03 1/20 |
| Date Analyzed: | 10/03/23 | Data File: | 100326.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 71 | 132 |
| Toluene-d8 | 111 | 68 | 139 |
| 4-Bromofluorobenzene | 95 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <20 | 1,3-Dichloropropane | <20 |
| Chloromethane | <200 | Tetrachloroethene | <20 |
| Vinyl chloride | <0.4 | Dibromochloromethane | <10 |
| Bromomethane | <100 | 1,2-Dibromoethane (EDB) | <20 |
| Chloroethane | <20 | Chlorobenzene | <20 |
| Trichlorofluoromethane | <20 | Ethylbenzene | 910 |
| Acetone | <1,000 ca | 1,1,1,2-Tetrachloroethane | <20 |
| 1,1-Dichloroethene | <20 | m,p-Xylene | 3,700 |
| Hexane | 160 | o-Xylene | 680 |
| Methylene chloride | <100 | Styrene | <20 |
| Methyl t-butyl ether (MTBE) | <20 | Isopropylbenzene | 53 |
| trans-1,2-Dichloroethene | <20 | Bromoform | <100 |
| 1,1-Dichloroethane | <20 | n-Propylbenzene | 98 |
| 2,2-Dichloropropane | <20 | Bromobenzene | <20 |
| cis-1,2-Dichloroethene | <20 | 1,3,5-Trimethylbenzene | 230 |
| Chloroform | <20 | 1,1,2,2-Tetrachloroethane | <4 |
| 2-Butanone (MEK) | <400 | 1,2,3-Trichloropropane | <20 |
| 1,2-Dichloroethane (EDC) | <4 | 2-Chlorotoluene | <20 |
| 1,1,1-Trichloroethane | <20 | 4-Chlorotoluene | <20 |
| 1,1-Dichloropropene | <20 | tert-Butylbenzene | <20 |
| Carbon tetrachloride | <10 | 1,2,4-Trimethylbenzene | 660 |
| Benzene | <7 | sec-Butylbenzene | <20 |
| Trichloroethene | <4 j | p-Isopropyltoluene | <20 |
| 1,2-Dichloropropane | <20 | 1,3-Dichlorobenzene | <20 |
| Bromodichloromethane | <10 | 1,4-Dichlorobenzene | <20 |
| Dibromomethane | <20 | 1,2-Dichlorobenzene | <20 |
| 4-Methyl-2-pentanone | <200 | 1,2-Dibromo-3-chloropropane | <200 |
| cis-1,3-Dichloropropene | <8 | 1,2,4-Trichlorobenzene | <20 |
| Toluene | 160 | Hexachlorobutadiene | <10 |
| trans-1,3-Dichloropropene | <8 | Naphthalene | 250 |
| 1,1,2-Trichloroethane | <10 | 1,2,3-Trichlorobenzene | <20 |
| 2-Hexanone | <200 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-15D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/03/23 | Lab ID: | 309479-04 |
| Date Analyzed: | 10/03/23 | Data File: | 100323.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 71 | 132 |
| Toluene-d8 | 109 | 68 | 139 |
| 4-Bromofluorobenzene | 98 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-16D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/03/23 | Lab ID: | 309479-05 |
| Date Analyzed: | 10/03/23 | Data File: | 100324.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 71 | 132 |
| Toluene-d8 | 111 | 68 | 139 |
| 4-Bromofluorobenzene | 99 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 10/03/23 | Lab ID: | 03-2309 mb |
| Date Analyzed: | 10/03/23 | Data File: | 100308.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | LM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.12 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-01 |
| Date Analyzed: | 09/29/23 | Data File: | 092911.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 105 | 15 | 144 |
| 2-Fluorobiphenyl | 114 | 25 | 128 |
| 2,4,6-Tribromophenol | 92 | 10 | 142 |
| Terphenyl-d14 | 126 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 79 ve |
| 2-Methylnaphthalene | 20 |
| 1-Methylnaphthalene | 9.1 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.044 |
| Fluorene | 0.032 |
| Phenanthrene | 0.026 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-01 1/10 |
| Date Analyzed: | 10/02/23 | Data File: | 100210.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 103 d | 15 | 144 |
| 2-Fluorobiphenyl | 113 d | 25 | 128 |
| 2,4,6-Tribromophenol | 103 d | 10 | 142 |
| Terphenyl-d14 | 141 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-8S-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-02 |
| Date Analyzed: | 09/29/23 | Data File: | 092912.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 107 | 15 | 144 |
| 2-Fluorobiphenyl | 105 | 25 | 128 |
| 2,4,6-Tribromophenol | 100 | 10 | 142 |
| Terphenyl-d14 | 135 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 19 |
| 2-Methylnaphthalene | 49 ve |
| 1-Methylnaphthalene | 47 ve |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.27 |
| Fluorene | 0.14 |
| Phenanthrene | 0.069 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-8S-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-02 1/10 |
| Date Analyzed: | 10/02/23 | Data File: | 100211.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 95 d | 15 | 144 |
| 2-Fluorobiphenyl | 102 d | 25 | 128 |
| 2,4,6-Tribromophenol | 113 d | 10 | 142 |
| Terphenyl-d14 | 128 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| 2-Methylnaphthalene | 53 |
| 1-Methylnaphthalene | 58 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-03 |
| Date Analyzed: | 09/29/23 | Data File: | 092913.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 99 | 15 | 144 |
| 2-Fluorobiphenyl | 50 J | 25 | 128 |
| 2,4,6-Tribromophenol | 59 J | 10 | 142 |
| Terphenyl-d14 | 116 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 110 ve |
| 2-Methylnaphthalene | 52 ve |
| 1-Methylnaphthalene | 32 |
| Acenaphthylene | <0.02 J |
| Acenaphthene | <0.02 J |
| Fluorene | 0.027 J |
| Phenanthrene | 0.066 |
| Anthracene | <0.02 |
| Fluoranthene | 0.022 |
| Pyrene | 0.060 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-13D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-03 1/100 |
| Date Analyzed: | 10/02/23 | Data File: | 100212.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 110 d | 15 | 144 |
| 2-Fluorobiphenyl | 90 d | 25 | 128 |
| 2,4,6-Tribromophenol | 280 d | 10 | 142 |
| Terphenyl-d14 | 110 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 150 |
| 2-Methylnaphthalene | 51 |
| Acenaphthylene | <2 |
| Acenaphthene | <2 |
| Fluorene | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-15D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-04 |
| Date Analyzed: | 10/02/23 | Data File: | 100209.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 15 | 144 |
| 2-Fluorobiphenyl | 101 | 25 | 128 |
| 2,4,6-Tribromophenol | 95 | 10 | 142 |
| Terphenyl-d14 | 139 vo | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.76 |
| 2-Methylnaphthalene | 0.33 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | 0.028 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-16D-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 09/28/23 | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 309479-05 |
| Date Analyzed: | 09/29/23 | Data File: | 092915.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 93 | 15 | 144 |
| 2-Fluorobiphenyl | 99 | 25 | 128 |
| 2,4,6-Tribromophenol | 85 | 10 | 142 |
| Terphenyl-d14 | 124 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Island, F&BI 309479 |
| Date Extracted: | 09/29/23 | Lab ID: | 03-2350 mb |
| Date Analyzed: | 09/29/23 | Data File: | 092905.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 110 | 15 | 144 |
| 2-Fluorobiphenyl | 101 | 25 | 128 |
| 2,4,6-Tribromophenol | 86 | 10 | 142 |
| Terphenyl-d14 | 131 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23
Date Received: 09/28/23
Project: Whidbey Island, F&BI 309479
Date Extracted: 10/02/23
Date Analyzed: 10/03/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-17D-GW 309479-01 | 55 |
| MW-8S-GW 309479-02 | 60 |
| MW-13D-GW 309479-03 | 19 |
| MW-15D-GW 309479-04 | 78 |
| MW-16D-GW 309479-05 | 6.4 |
| Method Blank I3-768 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 309479-04 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 116 | 128 | 65-151 | 10 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 309532-05 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 18.9 | 102 b | 97 b | 70-130 | 5 b |
| Lead | ug/L (ppb) | 10 | 2.35 | 85 b | 84 b | 70-130 | 1 b |
| Manganese | ug/L (ppb) | 20 | 3,770 | 147 b | 0 b | 70-130 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 94 | 85-115 |
| Lead | ug/L (ppb) | 10 | 96 | 85-115 |
| Manganese | ug/L (ppb) | 20 | 93 | 85-115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 309470-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 90 | 89 | 75-125 | 1 |
| Lead | ug/L (ppb) | 10 | <1 | 88 | 87 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 87 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 309503-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 97 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 98 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 98 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 102 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 50 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 86 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 94 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 85 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 102 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 71 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 100 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 94 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 105 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 101 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 98 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 100 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 92 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 96 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 102 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 103 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 103 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 106 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 104 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 106 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 113 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 98 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 97 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 100 | 100 | 46-206 | 0 |
| Chloromethane | ug/L (ppb) | 10 | 97 | 98 | 59-132 | 1 |
| Vinyl chloride | ug/L (ppb) | 10 | 99 | 99 | 64-142 | 0 |
| Bromomethane | ug/L (ppb) | 10 | 100 | 101 | 50-197 | 1 |
| Chloroethane | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 96 | 97 | 51-159 | 1 |
| Acetone | ug/L (ppb) | 50 | 49 | 50 | 10-140 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 92 | 93 | 64-140 | 1 |
| Hexane | ug/L (ppb) | 10 | 95 | 98 | 54-136 | 3 |
| Methylene chloride | ug/L (ppb) | 10 | 92 | 89 | 43-134 | 3 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 92 | 93 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 102 | 104 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 105 | 103 | 64-148 | 2 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 102 | 103 | 70-130 | 1 |
| Chloroform | ug/L (ppb) | 10 | 91 | 95 | 70-130 | 4 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 78 | 71 | 47-112 | 9 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 93 | 95 | 70-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 92 | 96 | 70-130 | 4 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 95 | 98 | 70-130 | 3 |
| Benzene | ug/L (ppb) | 10 | 104 | 106 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 99 | 102 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 100 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 97 | 97 | 70-130 | 0 |
| Dibromomethane | ug/L (ppb) | 10 | 95 | 97 | 70-130 | 2 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 98 | 104 | 68-130 | 6 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 101 | 69-131 | 1 |
| Toluene | ug/L (ppb) | 10 | 108 | 110 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 107 | 108 | 70-130 | 1 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 103 | 105 | 70-130 | 2 |
| 2-Hexanone | ug/L (ppb) | 50 | 93 | 101 | 45-138 | 8 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 110 | 111 | 70-130 | 1 |
| Tetrachloroethene | ug/L (ppb) | 10 | 111 | 111 | 70-130 | 0 |
| Dibromochloromethane | ug/L (ppb) | 10 | 104 | 109 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 107 | 110 | 70-130 | 3 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 104 | 70-130 | 3 |
| Ethylbenzene | ug/L (ppb) | 10 | 108 | 111 | 70-130 | 3 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 102 | 107 | 70-130 | 5 |
| m,p-Xylene | ug/L (ppb) | 20 | 106 | 108 | 70-130 | 2 |
| o-Xylene | ug/L (ppb) | 10 | 104 | 107 | 70-130 | 3 |
| Styrene | ug/L (ppb) | 10 | 103 | 108 | 70-130 | 5 |
| Isopropylbenzene | ug/L (ppb) | 10 | 104 | 107 | 70-130 | 3 |
| Bromoform | ug/L (ppb) | 10 | 106 | 111 | 69-138 | 5 |
| n-Propylbenzene | ug/L (ppb) | 10 | 105 | 104 | 70-130 | 1 |
| Bromobenzene | ug/L (ppb) | 10 | 104 | 105 | 70-130 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 108 | 111 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 102 | 105 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 102 | 104 | 70-130 | 2 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 103 | 104 | 70-130 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 103 | 104 | 70-130 | 1 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 105 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 107 | 106 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 105 | 107 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 105 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 106 | 106 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 102 | 99 | 70-130 | 3 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 103 | 104 | 70-130 | 1 |
| Naphthalene | ug/L (ppb) | 10 | 102 | 101 | 70-130 | 1 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 78 | 81 | 50-104 | 4 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 92 | 96 | 52-113 | 4 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 95 | 100 | 51-115 | 5 |
| Acenaphthylene | ug/L (ppb) | 5 | 90 | 94 | 60-114 | 4 |
| Acenaphthene | ug/L (ppb) | 5 | 89 | 93 | 57-110 | 4 |
| Fluorene | ug/L (ppb) | 5 | 97 | 99 | 61-115 | 2 |
| Phenanthrene | ug/L (ppb) | 5 | 94 | 96 | 63-113 | 2 |
| Anthracene | ug/L (ppb) | 5 | 98 | 100 | 65-117 | 2 |
| Fluoranthene | ug/L (ppb) | 5 | 97 | 91 | 68-121 | 6 |
| Pyrene | ug/L (ppb) | 5 | 101 | 112 | 62-133 | 10 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 105 | 108 | 66-131 | 3 |
| Chrysene | ug/L (ppb) | 5 | 108 | 107 | 66-129 | 1 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 108 | 105 | 66-129 | 3 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 96 | 94 | 55-144 | 2 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 104 | 99 | 58-139 | 5 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 117 | 116 | 62-136 | 1 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 120 | 115 | 55-146 | 4 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 117 | 117 | 58-137 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/23

Date Received: 09/28/23

Project: Whidbey Island, F&BI 309479

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 309493-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 3.5 | 3.5 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 82 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

W5/L3/I4

10

PO#

unbelievable

INVOICE TO

Project specific RLS? - Yes / No

| |
|--|
| TURNAROUND TIME |
| <input type="checkbox"/> Standard turnaround |
| <input type="checkbox"/> RUSH |
| Rush charges authorized by _____ |
| SAMPLE DISPOSAL |
| <input type="checkbox"/> Archive samples |
| <input type="checkbox"/> Other _____ |
| Default: Dispose after 30 _____ |

Default: Dispose after 30 days

PO#

unbelievable

INVOICE TO

Project specific RLS? - Yes / No

| |
|--|
| TURNAROUND TIME |
| <input type="checkbox"/> Standard turnaround |
| <input type="checkbox"/> RUSH |
| Rush charges authorized by _____ |
| SAMPLE DISPOSAL |
| <input type="checkbox"/> Archive samples |
| <input type="checkbox"/> Other _____ |
| Default: Dispose after 30 _____ |

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---|----------------|-----|-----|-----------|---------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | tox. & Dis. lead Bats PCB, PBB, PBK | EDB, EDL, MTBE | TOL | TSS | Geochem * | Notes |
| MW-17D-6m | 01 A-Q | 4/24/05 | 1510 | co | 17 | X | X | | | X | X | X | X | X | X | X | * Nitrate, Nitrite |
| MW-SD-6m | 02 | 4/24/05 | 1500 | m | 17 | | | | | X | X | X | X | X | X | X | chloride, sulfate, |
| MW-ID-6m | 03 | | 1050 | I | | | | | | X | X | X | X | X | X | X | Ammonia, alkalinity |
| MW-ID-6m | 04 | | 1105 | | | | | | | X | X | X | X | X | X | X | sulfide, MEE, |
| MW-ID-6m | 05 ✓ | | 1310 | | | | | | | X | X | X | X | X | X | X | dissolved minerals |
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TIME

0730

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| 9/28/23 | 0555 |
|---------|------|

Data Usability Summary Report

Project Name: Whidbey Marine & Auto Supply

Project Description: Groundwater Samples

Sample Date(s): August 2024

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Fremont Analytical, Inc. (Alliance Technical Group) – Seattle, WA

Validation Performed by: Eric Hitchens

Validation Reviewed by: Gabrielle Davis

Validation Date: 5 September 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Groups (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers**
 - 2. Precision and Accuracy [for SDG(s) above]**
 - 3. Explanations**
 - 4. Glossary**
 - 5. Abbreviations**
 - 6. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers listed in Table 1A. Analyses were performed on the samples listed in Table 1B. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- Custody seals were not used when samples were dropped off at the laboratory or service center by the field staff, submitted to a laboratory-provided courier, or when transported between subcontracted laboratories.
- The number of sample containers received at the laboratory did not match the COCs; the laboratories proceeded with analysis, and no qualifiers were applied.

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification (ICV) and/or continuing calibration verification (CCV) exceedances. Since these additional quality control issues were not required for the project's DQOs, these quality control issues were not reviewed.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for Nitrite for samples MW-2S and MW-3S. Both sets of results were reported and were qualified as noted in other sections of this report.

1.4 HOLDING TIMES/PRESERVATION

Method holding times are listed in Table 2A. The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol. Any exceptions are noted in Table 2B.

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Exceedances of the calibration curve are noted in Table 3.

1.6 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.7 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits. Any exceptions are noted in Table 4.

1.8 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The samples listed in Table 5 were used for matrix spike/matrix spike duplicate (MS/MSD) analysis. The MS/MSD percent recovery (%R) and the relative percent difference (RPD) between the MS and MSD results were within the specified limits, with the following exceptions:

- The %R for ammonia in the MS/MSD pair associated with MW-12D recovered low, and data in the associated analytical batches were qualified UJ.

1.9 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.10 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The following samples listed in Table 6A were used for laboratory duplicate analysis, and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

The samples listed in Table 6B were used for field duplicate analysis. RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

1.11 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. A summary of qualifiers applied to this dataset is shown in Table 7.

2. Precision and Accuracy [for SDG(s) above]

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - SSV Sub-slab Vapor
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)

- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

5. Abbreviations

| | | | |
|----------------|--|-----------------|--|
| %D | Percent Difference | MDL | Laboratory Method Detection Limit |
| %R | Percent Recovery | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| %RSD | Percent Relative Standard Deviation | NA | not applicable |
| %v/v | Percent volume by volume | ND | Non-Detect |
| 2s | 2 sigma | NFG | National Functional Guidelines |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | NH ₃ | Ammonia |
| Abs Diff | Absolute Difference | NYSDEC | New York State Department of Environmental Conservation |
| amu | atomic mass unit | PAH | Polycyclic Aromatic Hydrocarbon |
| BPJ | Best Professional Judgement | PCB | Polychlorinated Biphenyl |
| BS | Blank Spike | PDS | Post-Digestion Spike |
| CCB | Continuing Calibration Blank | PEM | Performance Evaluation Mixture |
| CCV | Continuing Calibration Verification | PFAS | Per- and Polyfluoroalkyl Substances |
| CCVL | Continuing Calibration Verification Low | PFBA | Perfluorobutanoic Acid |
| COC | Chain of Custody | PFD | Perfluorodecalin |
| COM | Combined Isotope Calculation | PFOA | Perfluorooctanoic Acid |
| Cr (VI) | Hexavalent Chromium | PFOS | Perfluorooctane sulfonate |
| CRI | Collision Reaction Interface | PFPeA | Perfluoropentanoic Acid |
| DoD | Department of Defense | QAPP | Quality Assurance Project Plan |
| DQO | data quality objective | QC | Quality Control |
| DUSR | Data Usability Summary Report | QSM | Quality Systems Manual |
| EIS | Extraction Internal Standard | R ² | R-squared value |
| EMPC | Estimated Maximum Possible Concentration | Ra-226 | Radium-226 |
| FBK | Field Blank Contamination | Ra-228 | Radium-228 |
| FDP | Field Duplicate | RESC | Resolution Check Measure |
| GC | Gas Chromatograph | RL | Laboratory Reporting Limit |
| GC/MS | Gas Chromatography/Mass Spectrometry | RPD | Relative Percent Difference |
| GPC | Gel Permeation Chromatography | RRF | Relative Response Factor |
| H ₂ | Hydrogen gas | RT | Retention Time |
| HCl | Hydrochloric Acid | SAP | Sampling Analysis Plan |
| ICAL | Initial Calibration | SDG | Sample Delivery Group |
| ICB | Initial Calibration Blank | SIM | Selected ion monitoring |
| ICP/MS | Inductively Coupled Plasma/Mass Spectrometry | SOP | Standard Operating Procedure |
| ICV | Initial Calibration Verification | SPE | Solid-Phase Extraction |
| ICVL | Initial Calibration Verification Low | SVOC | Semi-Volatile Organic Compound |
| IPA | Isopropyl Alcohol | TCLP | Toxicity Characteristic Leaching Procedure |
| LC | Laboratory Control | TIC | Tentatively Identified Compound |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate | TKN | Total Kjeldahl Nitrogen |
| MBK | Method Blank Contamination | TPH | Total Petroleum Hydrocarbon |
| MDC | Minimum Detectable Concentration | TPU | Total Propagated Uncertainty |
| | | USEPA | U.S. Environmental Protection Agency |
| | | VOC | Volatile Organic Compound |
| | | WP | Work Plan |

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected. The reported sample quantitation limit is approximate.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1A – Sample Delivery Groups
Table 1B – Sample Information
Table 2A – Method Holding Times
Table 2B – Holding Time Exceedances
Table 3 – Calibration Curve Exceedances
Table 4 – Laboratory Control Samples
Table 5 – Matrix Spike Samples
Table 6A – Laboratory Duplicate Samples
Table 6B – Field Duplicate Samples
Table 7 – System Performance Summary

TABLES

TABLE 1A
SAMPLE DELIVERY GROUPS
WHIDBEY MARINE & AUTO SUPPLY
WHIDBEY ISLAND, WASHINGTON

| Sample Delivery Group |
|-----------------------|
| 408088 |
| 408136 |
| 408153 |

TABLE 1B

SAMPLE INFORMATION

WHIDBEY MARINE & AUTO SUPPLY

WHIDBEY ISLAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods ¹ |
|-----------|-------------|--------------|-------------|--------|----------------------|
| MW-12D | N | 408088-01 | 08/05/2024 | WG | A, B, C, D, E, F |
| MW-21D | N | 408088-05 | 08/05/2024 | WG | A, B, D, E, F |
| MW-21D | N | 408088 -05 | 08/05/2024 | WG | C |
| MW-19D | N | 408088-04 | 08/05/2024 | WG | A, B, D, E, F |
| MW-22D | N | 408088-06 | 08/05/2024 | WG | A, B, D, E, F |
| MW-22D | N | 408088 -06 | 08/05/2024 | WG | C |
| MW-23D | N | 408088-03 | 08/05/2024 | WG | A, B, D, E, F |
| MW-23D | N | 408088 -03 | 08/05/2024 | WG | C |
| MW-18D | N | 408088-02 | 08/05/2024 | WG | A, B, D, E, F |
| MW-12D | N | 2408076-001B | 08/05/2024 | WG | G, H |
| MW-12D | N | 2408076-001A | 08/05/2024 | WG | I |
| MW-12D | N | 2408076-001D | 08/05/2024 | WG | J, K |
| MW-12D | N | 2408076-001C | 08/05/2024 | WG | L |
| MW-18D | N | 2408076-002B | 08/05/2024 | WG | G, H |
| MW-23D | N | 2408076-003B | 08/05/2024 | WG | G, H |
| MW-18D | N | 2408076-002A | 08/05/2024 | WG | I |
| MW-18D | N | 2408076-002D | 08/05/2024 | WG | J, K |
| MW-18D | N | 2408076-002C | 08/05/2024 | WG | L |
| MW-21D | N | 2408076-004B | 08/05/2024 | WG | G, H |
| MW-21D | N | 2408076-004A | 08/05/2024 | WG | I |
| MW-21D | N | 2408076-004D | 08/05/2024 | WG | J, K |
| MW-21D | N | 2408076-004C | 08/05/2024 | WG | L |
| MW-23D | N | 2408076-003A | 08/05/2024 | WG | I |
| MW-18D | N | 408088 -02 | 08/05/2024 | WG | C |
| MW-19D | N | 408088 -04 | 08/05/2024 | WG | C |
| MW-23D | N | 2408076-003D | 08/05/2024 | WG | J, K |
| MW-23D | N | 2408076-003C | 08/05/2024 | WG | L |
| MW-17D | N | 408136-04 | 08/06/2024 | WG | A, B, D, E, F |
| FD-01 | FD | 408136-06 | 08/06/2024 | WG | A, B, D, E, F |
| MW-20D | N | 408136-05 | 08/06/2024 | WG | A, B, D, E, F |
| MW-20D | N | 408136 -05 | 08/06/2024 | WG | C |
| MW-6S | N | 408136-01 | 08/06/2024 | WG | A, B, C, D, E, F |
| MW-9D | N | 408136-03 | 08/06/2024 | WG | A, B, D, E, F |
| MW-17D | N | 2408117-003A | 08/06/2024 | WG | G, H |
| MW-8S | N | 408136-02 | 08/06/2024 | WG | A, B, D, E, F |
| FD-01 | FD | 408136 -06 | 08/06/2024 | WG | C |
| MW-17D | N | 408136 -04 | 08/06/2024 | WG | C |
| MW-8S | N | 408136 -02 | 08/06/2024 | WG | C |
| MW-9D | N | 408136 -03 | 08/06/2024 | WG | C |
| FD-01 | FD | 2408117-004A | 08/06/2024 | WG | G, H |
| FD-01 | FD | 2408117-004D | 08/06/2024 | WG | I |
| FD-01 | FD | 2408117-004B | 08/06/2024 | WG | J |
| FD-01 | FD | 2408117-004C | 08/06/2024 | WG | M |
| MW-17D | N | 2408117-003D | 08/06/2024 | WG | I |
| MW-17D | N | 2408117-003B | 08/06/2024 | WG | J |
| MW-17D | N | 2408117-003C | 08/06/2024 | WG | M |
| MW-8S | N | 2408117-001A | 08/06/2024 | WG | G, H |

TABLE 1B

SAMPLE INFORMATION

WHIDBEY MARINE & AUTO SUPPLY

WHIDBEY ISLAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods ¹ |
|-----------|-------------|--------------|-------------|--------|----------------------|
| MW-8S | N | 2408117-001D | 08/06/2024 | WG | I |
| MW-8S | N | 2408117-001B | 08/06/2024 | WG | J |
| MW-8S | N | 2408117-001C | 08/06/2024 | WG | M |
| MW-9D | N | 2408117-002A | 08/06/2024 | WG | G, H |
| MW-9D | N | 2408117-002D | 08/06/2024 | WG | I |
| MW-9D | N | 2408117-002B | 08/06/2024 | WG | J |
| MW-9D | N | 2408117-002C | 08/06/2024 | WG | M |
| MW-2S | N | 408153-01 | 08/07/2024 | WG | A, B, C, D, E, F |
| MW-3S | N | 408153-02 | 08/07/2024 | WG | A, B, D, E, F |
| MW-3S | N | 408153-02 | 08/07/2024 | WG | C |
| MW-2S | N | 2408139-001C | 08/07/2024 | WG | G, H |
| MW-3S | N | 2408139-002C | 08/07/2024 | WG | G, H |
| MW-2S | N | 2408139-001D | 08/07/2024 | WG | I |
| MW-2S | N | 2408139-001A | 08/07/2024 | WG | J, K |
| MW-2S | N | 2408139-001B | 08/07/2024 | WG | M |
| MW-3S | N | 2408139-002D | 08/07/2024 | WG | I |
| MW-3S | N | 2408139-002A | 08/07/2024 | WG | J, K |
| MW-3S | N | 2408139-002B | 08/07/2024 | WG | M |

Notes:

1. See Table 2A

TABLE 2A**METHOD HOLDING TIMES**

WHIDBEY MARINE & AUTO SUPPLY

WHIDBEY ISLAND, WASHINGTON

| Letter Code | Method | Description | Holding Time(s) |
|-------------|-------------|--|--|
| A | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Diesel Range Organics | 14 days for liquid, preserved 7 days for liquid unpreserved |
| B | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics | 14 days for liquid, preserved 7 days for liquid unpreserved |
| C | SM2540D | Total Suspended Solids | 7 days for liquid unpreserved |
| D | SW6020B | Metals | 180 days for liquid, preserved |
| E | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved 7 days for liquid unpreserved |
| F | SW8270E | Semivolatile Organic Compounds (SVOCs) | 7 days extraction / 40 days analysis for liquid, unpreserved |
| G | E300 | Inorganic Anions | 48 hours for nitrite, nitrate 28 days for sulfate |
| H | E310.2 | Alkalinity | 14 days for liquid, unpreserved |
| I | RSK175 | Dissolved Gases | 14 days for liquid, preserved 7 days for liquid unpreserved |
| J | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid, preserved |
| K | SM5310C | Total Organic Carbon | 28 days for liquid, preserved |
| L | SM4500-S2-F | Sulfides | 7 days for liquid, preserved |
| M | SM4500-S2-D | Total Sulfides | 7 days for liquid, preserved |

TABLE 2B**HOLDING TIME EXCEEDANCES**

WHIDBEY MARINE & AUTO SUPPLY

WHIDBEY ISLAND, WASHINGTON

| Sample ID | Method | Analyte | Qualifier |
|-----------|--------|---------|-----------|
| MW-2S | E300 | Nitrite | UJ |
| MW-3S | E300 | Nitrite | UJ |
| MW-18D | E300 | Nitrate | J |

TABLE 3
CALIBRATION CURVE EXCEEDANCES
 WHIDBEY MARINE & AUTO SUPPLY
 WHIDBEY ISLAND, WASHINGTON

| Sample ID | Fraction | Analyte | Result | Qualifier |
|-----------|----------------|--------------------------------------|--------|-----------|
| MW-2S | Dissolved | Iron | 160 | J |
| MW-3S | Dissolved | Iron | 94 | J |
| MW-8S | Not Applicable | Methylene chloride (Dichloromethane) | 5.6 | J |

TABLE 4
LABORATORY CONTROL SAMPLES
 WHIDBEY MARINE & AUTO SUPPLY
 WHIDBEY ISLAND, WASHINGTON

| SDG | Sample Type | Batch | Analyte | %R/RPD | Qualifier | Qualifier |
|----------|-------------|-------|---------|--------|-----------|--------------------------|
| Multiple | LCS | 44773 | Sulfate | 88.1 | J-/UJ | All samples in the batch |
| 408153 | LCS | 44773 | Nitrite | 89.1 | UJ | MW-2S, MW-3S |

TABLE 5**MATRIX SPIKE SAMPLES**

WHIDBEY MARINE & AUTO SUPPLY

WHIDBEY ISLAND, WASHINGTON

| SDG | Laboratory ID | Method |
|--------|-----------------|-------------|
| 408088 | 2408063-002AMS | EPA300.0 |
| 408088 | 2408063-002AMSD | EPA300.0 |
| 408088 | 2408097-002AMS | EPA300.0 |
| 408088 | 2408179-002BMS | SM4500NH3G |
| 408088 | MW-12DMS | SM4500NH3G |
| 408088 | MW-12DMS | SM5310C |
| 408088 | MW-12DMSD | SM4500NH3G |
| 408088 | MW-12DMSD | SM5310C |
| 408088 | MW-21DMS | SM4500-S2-F |
| 408136 | 2408063-002AMS | EPA300.0 |
| 408136 | 2408063-002AMSD | EPA300.0 |
| 408136 | 2408076-001CMS | SM4500S2D |
| 408136 | 2408076-001CMSD | SM4500S2D |
| 408136 | 2408076-001DMS | SM4500NH3G |
| 408136 | 2408076-001DMSD | SM4500NH3G |
| 408136 | 2408097-002AMS | EPA300.0 |
| 408136 | 2408139-002BMS | SM4500S2D |
| 408136 | 2408179-002BMS | SM4500NH3G |
| 408153 | 2408076-001CMS | SM4500S2D |
| 408153 | 2408076-001CMSD | SM4500S2D |
| 408153 | 2408076-001DMS | SM5310C |
| 408153 | 2408076-001DMSD | SM5310C |
| 408153 | 2408124-009BMS | EPA300.0 |
| 408153 | 2408124-009BMSD | EPA300.0 |
| 408153 | 2408124-015BMS | EPA300.0 |
| 408153 | 2408139-002BMS | SM4500S2D |
| 408153 | 2408139-002CMS | EPA300.0 |
| 408153 | 2408179-002BMS | SM4500NH3G |
| 408153 | 2408189-001BMS | EPA300.0 |
| 408153 | 2408189-001BMSD | EPA300.0 |

TABLE 6A
LABORATORY DUPLICATE SAMPLES
 WHIDBEY MARINE & AUTO SUPPLY
 WHIDBEY ISLAND, WASHINGTON

| SDG | Laboratory ID | Method |
|--------|-----------------|-------------|
| 408088 | 2408063-002ADUP | EPA300.0 |
| 408088 | 2408097-002ADUP | EPA300.0 |
| 408088 | 2408179-002BDUP | SM4500NH3G |
| 408088 | 2408180-001DDUP | SM4500-S2-F |
| 408088 | MW-12DDUP | EPA 310.2 |
| 408088 | MW-12DDUP | SM4500NH3G |
| 408088 | MW-12DDUP | SM5310C |
| 408136 | 2408063-002ADUP | EPA300.0 |
| 408136 | 2408076-001BDUP | EPA 310.2 |
| 408136 | 2408076-001CDUP | SM4500S2D |
| 408136 | 2408076-001DDUP | SM4500NH3G |
| 408136 | 2408097-002ADUP | EPA300.0 |
| 408136 | 2408139-002BDUP | SM4500S2D |
| 408136 | 2408179-002BDUP | SM4500NH3G |
| 408153 | 2408076-001CDUP | SM4500S2D |
| 408153 | 2408076-001DDUP | SM4500NH3G |
| 408153 | 2408076-001DDUP | SM5310C |
| 408153 | 2408124-009BDUP | EPA 310.2 |
| 408153 | 2408124-009BDUP | EPA300.0 |
| 408153 | 2408124-015BDUP | EPA300.0 |
| 408153 | 2408139-002BDUP | SM4500S2D |
| 408153 | 2408139-002CDUP | EPA300.0 |
| 408153 | 2408179-002BDUP | SM4500NH3G |
| 408153 | 2408189-001BDUP | EPA300.0 |

TABLE 6B
FIELD DUPLICATE SAMPLES
 WHIDBEY MARINE & AUTO SUPPLY
 WHIDBEY ISLAND, WASHINGTON

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|---|
| MW-9D | FD-01 | E300, E310.2, NWTPH-DX, NWTPH-GX, RSK175, SM 2540D, SM 4500-NH3G, SM 4500-S2-D, EPA 6020B, EPA 8260D, EPA 8270E |

TABLE 7
SYSTEM PERFORMANCE SUMMARY
 WHIDBEY MARINE & AUTO SUPPLY
 WHIDBEY ISLAND, WASHINGTON

| SDG | Method | Sample ID | Lab ID | Analyte | Fraction | Reportable Result | Reported Result | Validated Result | Reason for Qualifier |
|--------|-------------|-----------|--------------|--------------------------------------|----------|-------------------|-----------------|------------------|----------------------|
| 408153 | SW6020B | MW-2S | 408153-01 | Iron | D | Yes | 160 J | 160 J | EXE |
| 408153 | SW6020B | MW-3S | 408153-02 | Iron | D | Yes | 94 J | 94 J | EXE |
| 408136 | SW8260D | MW-8S | 408136-02 | Methylene chloride (Dichloromethane) | N | Yes | 5.6 J | 5.6 J | EXE |
| 408088 | E300 | MW-18D | 2408076-002B | Nitrate (as N) | N | Yes | 16.9 | 16.9 J | HTQ |
| 408153 | E300 | MW-2S | 2408139-001C | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 408153 | E300 | MW-3S | 2408139-002C | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 408136 | E300 | FD-01 | 2408117-004A | Sulfate | N | Yes | 8.5 | 8.5 J- | LCS |
| 408088 | E300 | MW-12D | 2408076-001B | Sulfate | N | Yes | U | UJ | LCS |
| 408136 | E300 | MW-17D | 2408117-003A | Sulfate | N | Yes | U | UJ | LCS |
| 408088 | E300 | MW-18D | 2408076-002B | Sulfate | N | Yes | 20.6 | 20.6 J- | LCS |
| 408088 | E300 | MW-21D | 2408076-004B | Sulfate | N | Yes | 7.11 | 7.11 J- | LCS |
| 408088 | E300 | MW-23D | 2408076-003B | Sulfate | N | Yes | U | UJ | LCS |
| 408153 | E300 | MW-2S | 2408139-001C | Nitrite (as N) | N | Yes | U | UJ | LCS |
| 408153 | E300 | MW-3S | 2408139-002C | Nitrite (as N) | N | Yes | U | UJ | LCS |
| 408136 | E300 | MW-8S | 2408117-001A | Sulfate | N | Yes | 23.7 | 23.7 J- | LCS |
| 408136 | E300 | MW-9D | 2408117-002A | Sulfate | N | Yes | 8.57 | 8.57 J- | LCS |
| 408136 | SM4500-NH3G | FD-01 | 2408117-004B | Ammonia | N | Yes | U | UJ | MSD |
| 408088 | SM4500-NH3G | MW-12D | 2408076-001D | Ammonia | N | Yes | U | UJ | MSD |
| 408136 | SM4500-NH3G | MW-17D | 2408117-003B | Ammonia | N | Yes | U | UJ | MSD |
| 408088 | SM4500-NH3G | MW-18D | 2408076-002D | Ammonia | N | Yes | U | UJ | MSD |
| 408088 | SM4500-NH3G | MW-21D | 2408076-004D | Ammonia | N | Yes | U | UJ | MSD |
| 408088 | SM4500-NH3G | MW-23D | 2408076-003D | Ammonia | N | Yes | U | UJ | MSD |
| 408153 | SM4500-NH3G | MW-2S | 2408139-001A | Ammonia | N | Yes | U | UJ | MSD |
| 408153 | SM4500-NH3G | MW-3S | 2408139-002A | Ammonia | N | Yes | U | UJ | MSD |
| 408136 | SM4500-NH3G | MW-8S | 2408117-001B | Ammonia | N | Yes | U | UJ | MSD |
| 408136 | SM4500-NH3G | MW-9D | 2408117-002B | Ammonia | N | Yes | U | UJ | MSD |

Notes:

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.

EXE = Result exceeds the calibration range.

HTQ = Holding time exceedance.

LCS = Laboratory control/laboratory control spike duplicate percent recoveries or relative percent difference were outside the specified limits.

J- = The result is an estimated quantity, but the result may be biased low.

UJ = The compound was not detected. The reported sample quantitation limit is approximate.

J = Estimated concentration.



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Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401419

January 30, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 1/23/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401419

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401419-001 | MW-21D-S2 | 01/16/2024 10:50 AM | 01/23/2024 1:30 PM |
| 2401419-002 | MW-21D-S4 | 01/16/2024 10:30 AM | 01/23/2024 1:30 PM |
| 2401419-003 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/23/2024 1:30 PM |
| 2401419-004 | MW-23D-S2 | 01/19/2024 3:05 PM | 01/23/2024 1:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

2/12/24- Revised report includes an updated Sample ID for 2401419-004 per the COC.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401419-001 **Collection Date:** 1/16/2024 10:50:00 AM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 1:05:00 PM |

Lab ID: 2401419-002 **Collection Date:** 1/16/2024 10:30:00 AM
Client Sample ID: MW-21D-S4 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 2:32:00 PM |

Lab ID: 2401419-003 **Collection Date:** 1/16/2024 2:30:00 PM
Client Sample ID: MW-21D-S7 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:15:00 PM |

Lab ID: 2401419-004 **Collection Date:** 1/19/2024 3:05:00 PM
Client Sample ID: MW-23D-S2 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:32:00 PM |

Work Order: 2401419
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-42741 | SampType: MBLK | Units: %-dry | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | | |
| Client ID: MBLKS | Batch ID: 42741 | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864259 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.150 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-42741 | | SampType: LCS | | | Units: %-dry | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: LCSS | | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864260 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.07 | 0.150 | 1.000 | 0 | 107 | 80 | 120 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2401419-001ADUP | SampType: DUP | Units: %-dry | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864262 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|---|--|----|--|
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | |
|----------------------|----|-------|--|--|--|--|--|---|--|----|--|

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2401419-001AMS | | SampType: MS | | Units: %-dry | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MW-21D-S2 | | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864263 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|---------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2401419-001AMSD | | SampType: MSD | | Units: %-dry | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MW-21D-S2 | | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864264 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|-------|------|----|--|
| Total Organic Carbon | 1.04 | 0.150 | 1.000 | 0 | 104 | 75 | 125 | 1.106 | 6.63 | 20 | |
|----------------------|------|-------|-------|---|-----|----|-----|-------|------|----|--|

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401419
 Date Received: 1/23/2024 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of

Phone # (206) 285-8282

ANALYSES REQUESTED[illegible]

TIME

Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 2, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 15, 2024 from the Whibdey Marine 0204475-001, F&BI 401180 project. There are 47 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0202R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 15, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whibdey Marine 0204475-001, F&BI 401180 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401180 -01 | MW-19D-S1 |
| 401180 -02 | MW-19D-S2 |
| 401180 -03 | MW-19D-S3 |
| 401180 -04 | MW-19D-S4 |
| 401180 -05 | MW-19D-S5 |
| 401180 -06 | MW-19D-S6 |
| 401180 -07 | HA-2-S1 |
| 401180 -08 | MW-20D-S1 |
| 401180 -09 | MW-20D-S2 |
| 401180 -10 | MW-20D-S3 |
| 401180 -11 | MW-20D-S4 |
| 401180 -12 | MW-20D-S5 |

Sample MW-19D-S2 was sent to Fremont Analytical for EPH and VPH analyses. The report is enclosed.

Acetone in the 8260D laboratory control sample did not meet the acceptance criteria. The data were flagged accordingly.

An 8270E internal standard failed the acceptance criteria for sample MW-19D-S2. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

Date Extracted: NA

Date Analyzed: 01/15/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-19D-S1 401180-01 | 9 |
| MW-19D-S2 401180-02 | 8 |
| MW-19D-S3 401180-03 | 3 |
| MW-19D-S4 401180-04 | 5 |
| MW-19D-S5 401180-05 | 19 |
| MW-19D-S6 401180-06 | 17 |
| MW-20D-S1 401180-08 | 5 |
| MW-20D-S2 401180-09 | 7 |
| MW-20D-S3 401180-10 | 6 |
| MW-20D-S4 401180-11 | 3 |
| MW-20D-S5 401180-12 | 22 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

Date Extracted: 01/16/24

Date Analyzed: 01/16/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-19D-S1 401180-01 | <5 | 112 |
| MW-19D-S2 401180-02 | 10 | 99 |
| MW-19D-S3 401180-03 | <5 | 110 |
| MW-19D-S4 401180-04 | <5 | 113 |
| MW-19D-S5 401180-05 | <5 | 111 |
| MW-19D-S6 401180-06 | <5 | 113 |
| MW-20D-S1 401180-08 | <5 | 113 |
| MW-20D-S2 401180-09 | <5 | 112 |
| MW-20D-S3 401180-10 | <5 | 112 |
| MW-20D-S4 401180-11 | <5 | 114 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

Date Extracted: 01/16/24

Date Analyzed: 01/16/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) |
|----------------------------|-----------------------|---------------------------|
| Laboratory ID | | (Limit 50-150) |
| MW-20D-S5 401180-12 | <5 | 114 |
| Method Blank 04-0019 MB | <5 | 107 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/15/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-19D-S1 401180-01 | <50 | <250 | 104 |
| MW-19D-S2 401180-02 | 370 | 1,700 | 107 |
| MW-19D-S3 401180-03 | <50 | <250 | 107 |
| MW-19D-S4 401180-04 | <50 | <250 | 103 |
| MW-19D-S5 401180-05 | <50 | <250 | 104 |
| MW-19D-S6 401180-06 | <50 | <250 | 102 |
| MW-20D-S1 401180-08 | <50 | <250 | 103 |
| MW-20D-S2 401180-09 | <50 | <250 | 102 |
| MW-20D-S3 401180-10 | <50 | <250 | 102 |
| MW-20D-S4 401180-11 | <50 | <250 | 104 |
| MW-20D-S5 401180-12 | <50 | <250 | 101 |
| Method Blank 04-145 MB | <50 | <250 | 104 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> <u>(% Recovery)</u> |
|---------------------------|-------------------------------------|-------------------------------------|---|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (Limit 50-150) |
| MW-19D-S2 401180-02 | 240 | 1,100 | 93 |
| Method Blank 04-145 MB | <50 | <250 | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-01 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-01.228 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.06 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-02 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-02.229 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.19 |
| Lead | 2.93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-03 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-03.241 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.79 |
| Lead | 1.41 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-04 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-04.242 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.56 |
| Lead | 1.23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-06 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-06.243 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 3.40 |
| Lead | 2.32 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-08 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-08.247 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.33 |
| Lead | 1.17 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-09 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-09.248 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.35 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-10 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-10.249 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.93 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-11 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-11.250 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.73 |
| Lead | 1.43 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | I4-34 mb |
| Date Analyzed: | 01/15/24 | Data File: | I4-34 mb.145 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-01 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011707.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 µl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-19D-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/15/24 | Project: Whibdey Marine 0204475-001 |
| Date Extracted: 01/17/24 | Lab ID: 401180-02 1/0.5 |
| Date Analyzed: 01/17/24 | Data File: 011708.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 84 | 120 |
| Toluene-d8 | 105 | 73 | 128 |
| 4-Bromofluorobenzene | 95 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 µl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0047 |
| Hexane | <0.25 | o-Xylene | 0.0045 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.082 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0020 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.026 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-03 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011709.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-19D-S4 | Client: Haley & Aldrich, Inc |
| Date Received: 01/15/24 | Project: Whibdey Marine 0204475-001 |
| Date Extracted: 01/17/24 | Lab ID: 401180-04 1/0.5 |
| Date Analyzed: 01/17/24 | Data File: 011710.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-05 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011711.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 84 | 120 |
| Toluene-d8 | 106 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Benzene | <0.001 |
| Toluene | <0.001 |
| Ethylbenzene | <0.001 |
| m,p-Xylene | <0.002 |
| o-Xylene | <0.001 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-06 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011712.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 90 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 µl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-08 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011713.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.013 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-09 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011714.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.013 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-10 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011715.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 94 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0092 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-11 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011716.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0046 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-12 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011717.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Benzene | <0.001 |
| Toluene | <0.001 |
| Ethylbenzene | <0.001 |
| m,p-Xylene | <0.002 |
| o-Xylene | <0.001 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 04-0105 mb 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011706.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 71 | 132 |
| Toluene-d8 | 98 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-01 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011613.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 16 | 137 |
| 2-Fluorobiphenyl | 75 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 76 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-02 1/25 |
| Date Analyzed: | 01/16/24 | Data File: | 011624.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 d | 16 | 137 |
| 2-Fluorobiphenyl | 85 d | 46 | 122 |
| 2,4,6-Tribromophenol | 94 d | 17 | 154 |
| Terphenyl-d14 | 98 d | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.05 |
| 2-Methylnaphthalene | 0.10 |
| 1-Methylnaphthalene | 0.060 |
| Acenaphthylene | <0.05 |
| Acenaphthene | <0.05 |
| Fluorene | <0.05 |
| Phenanthrene | <0.05 |
| Anthracene | <0.05 |
| Fluoranthene | <0.05 |
| Pyrene | <0.05 |
| Benz(a)anthracene | <0.05 |
| Chrysene | 0.051 |
| Benzo(a)pyrene | <0.05 J |
| Benzo(b)fluoranthene | <0.05 J |
| Benzo(k)fluoranthene | <0.05 J |
| Indeno(1,2,3-cd)pyrene | <0.05 J |
| Dibenz(a,h)anthracene | <0.05 J |
| Benzo(g,h,i)perylene | <0.05 J |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-02 1/250 |
| Date Analyzed: | 01/17/24 | Data File: | 011720.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 d | 16 | 137 |
| 2-Fluorobiphenyl | 90 d | 46 | 122 |
| 2,4,6-Tribromophenol | 200 d | 17 | 154 |
| Terphenyl-d14 | 85 d | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Benzo(a)pyrene | <0.5 |
| Benzo(b)fluoranthene | <0.5 |
| Benzo(k)fluoranthene | <0.5 |
| Indeno(1,2,3-cd)pyrene | <0.5 |
| Dibenz(a,h)anthracene | <0.5 |
| Benzo(g,h,i)perylene | <0.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-03 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011614.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-04 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011615.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 74 | 17 | 154 |
| Terphenyl-d14 | 79 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-06 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011616.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 16 | 137 |
| 2-Fluorobiphenyl | 86 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-08 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011617.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-09 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011618.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 16 | 137 |
| 2-Fluorobiphenyl | 75 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 75 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-10 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011619.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 16 | 137 |
| 2-Fluorobiphenyl | 78 | 46 | 122 |
| 2,4,6-Tribromophenol | 73 | 17 | 154 |
| Terphenyl-d14 | 81 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-11 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011620.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 16 | 137 |
| 2-Fluorobiphenyl | 70 | 46 | 122 |
| 2,4,6-Tribromophenol | 67 | 17 | 154 |
| Terphenyl-d14 | 77 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whibdey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 04-0147 mb 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011612.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 16 | 137 |
| 2-Fluorobiphenyl | 95 | 46 | 122 |
| 2,4,6-Tribromophenol | 80 | 17 | 154 |
| Terphenyl-d14 | 90 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 401180-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|----------|--------------------|------------------------------|---------------------------------|-------------------|
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | mg/kg (ppm) | 40 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401171-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 106 | 106 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401171-01 (Matrix Spike) Silica Gel

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 130 | 115 | 119 | 63-146 | 3 |

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 118 | 77-123 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401170-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 112 | 116 | 75-125 | 4 |
| Lead | mg/kg (ppm) | 50 | <5 | 101 | 105 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 98 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401180-04 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 57 | 56 | 10-142 | 2 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 82 | 81 | 10-126 | 1 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 82 | 83 | 10-138 | 1 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 82 | 83 | 10-163 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 80 | 10-176 | 2 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 82 | 81 | 10-176 | 1 |
| Acetone | mg/kg (ppm) | 10 | <5 | 47 | 50 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 88 | 86 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 91 | 90 | 10-137 | 1 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 78 | 74 | 10-156 | 5 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 90 | 92 | 21-145 | 2 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 88 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 94 | 97 | 10-158 | 3 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 21-145 | 1 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 74 | 75 | 19-147 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 96 | 95 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 10-156 | 0 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 17-140 | 1 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 90 | 90 | 9-164 | 0 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 90 | 89 | 29-129 | 1 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 90 | 90 | 21-139 | 0 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 92 | 90 | 30-135 | 2 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 95 | 95 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 87 | 91 | 23-145 | 4 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 96 | 92 | 24-155 | 4 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 96 | 96 | 28-144 | 0 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 94 | 96 | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 99 | 98 | 26-149 | 1 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 10-205 | 0 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 104 | 105 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 97 | 99 | 31-137 | 2 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 95 | 97 | 20-133 | 2 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 99 | 98 | 28-150 | 1 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 98 | 101 | 28-142 | 3 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 97 | 97 | 32-129 | 0 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 98 | 97 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 95 | 98 | 31-143 | 3 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 96 | 97 | 34-136 | 1 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 98 | 98 | 33-134 | 0 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 98 | 98 | 35-137 | 0 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 96 | 99 | 31-142 | 3 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 97 | 100 | 21-156 | 3 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 104 | 23-146 | 1 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 107 | 104 | 34-130 | 3 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 104 | 18-149 | 2 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 107 | 105 | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 108 | 25-144 | 1 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 102 | 102 | 31-136 | 0 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 30-137 | 2 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 106 | 23-145 | 1 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 21-149 | 0 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 30-131 | 2 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 29-129 | 0 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 31-132 | 0 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 101 | 106 | 11-161 | 5 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 106 | 105 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 119 | 118 | 10-142 | 1 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 14-157 | 2 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 105 | 105 | 20-144 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 72 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 91 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 86 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 89 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 90 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 51 vo | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 96 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 97 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 94 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 94 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 97 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 94 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 94 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 79 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 95 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 97 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 95 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 96 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 93 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 101 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 97 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 99 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 99 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 103 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 108 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 108 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 108 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 106 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 108 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 104 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 106 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 104 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 104 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 104 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 107 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 112 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 105 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 108 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 107 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 111 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 105 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 104 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 103 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 110 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 105 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 111 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 110 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 118 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 105 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 107 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whibdey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401180-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 77 | 75 | 50-150 | 3 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 76 | 50-150 | 3 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 74 | 72 | 50-150 | 3 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 82 | 50-150 | 1 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 79 | 50-150 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 78 | 50-150 | 0 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 81 | 10-170 | 1 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 82 | 37-139 | 2 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 89 | 10-203 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 84 | 10-208 | 1 |
| Benzo(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 89 | 88 | 37-146 | 1 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 84 | 36-144 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 91 | 40-150 | 1 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 83 | 45-157 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 84 | 50-150 | 4 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 101 | 103 | 24-145 | 2 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 99 | 101 | 31-137 | 2 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 97 | 14-141 | 1 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 81 | 59-105 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 81 | 62-108 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 76 | 62-108 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 87 | 61-111 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 84 | 61-110 |
| Fluorene | mg/kg (ppm) | 0.83 | 82 | 62-114 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 86 | 64-112 |
| Anthracene | mg/kg (ppm) | 0.83 | 88 | 63-111 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 93 | 66-115 |
| Pyrene | mg/kg (ppm) | 0.83 | 91 | 65-112 |
| Benzo(a)anthracene | mg/kg (ppm) | 0.83 | 93 | 64-116 |
| Chrysene | mg/kg (ppm) | 0.83 | 90 | 66-119 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 94 | 62-116 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 86 | 61-118 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 89 | 65-119 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 106 | 64-130 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 104 | 67-131 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 67-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

01/15/24 N2

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2

401180

Report To H. Good, V. Pehlivan

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) _____

PROJECT NAME

Whiskey Mine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

TURNAROUND TIME

☒ Standard turnaround

☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

ANALYSES REQUESTED

X-EPH and VPH on

MW-19D-S2 per HG

01/16/24 ME

Notes

A-per HG

01/22/24 ME

| ANALYSES REQUESTED | | | | | | | | | | | | | | | | | |
|--------------------|--------|--------------|--------------|-------------|-----------|----------|----------|---------------|------------|---------------|---------------|----------------------------------|-------|--------------|---------------|------|--------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Dx with Silica Gel PCBs EPA 8082 | Ph+As | EDB,EDL,MTBE | EPA/UPH (H&I) | BTEX | x-EPH and VPH |
| MW-19D-S1 | 01A-F | 1/10/24 | 0940 | Soil | 6 | X | X | | X | X | X | A | X | X | | | Inadequate samples |
| MW-19D-S2 | 02 | | 1000 | | | X | X | | X | X | | | X | X | | | w/TPH analyses |
| MW-19D-S3 | 03 | | 1110 | | | X | X | | X | X | | | X | X | | | Hold EPA/UPH |
| MW-19D-S4 | 04 | | 1120 | | | X | X | | X | X | | | X | X | | | pending TPH |
| MW-19D-S5 | 05 | | 1335 | | | X | X | | X | X | | | | | | X | results |
| MW-19D-S6 | 06 | | 1630 | | | X | X | | X | X | | | X | X | | | 0'-Hold |
| HA-2-S1 | 07 | 1/9/24 | 1300 | | | | | | | | | | | | | | |
| MW-20D-S1 | 08 | 1/11/24 | 1430 | | | X | X | | X | X | | | X | X | | | |
| MW-20D-S2 | 09 | | 1450 | | | X | X | | X | X | | | X | X | | | |
| MW-20D-S3 | 10 | 1/12/24 | 1155 | | | X | X | | X | X | | | X | X | | | |

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Andrew Nakamura

HA

1/15/24

07:01:00

Relinquished by: _____

ANH P HAN

FRB

01/15/24 11:20

Received by: _____

Samples received at

1 °C

Friedman & Bruya, Inc.
Ph. (206) 285-8282

01/15/24 N2

2 of 2

1

PO #

00-52207-00


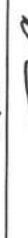
INVOICE TO

SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____
 Default: Dispose after 30 days

ANALYSES REQUESTED

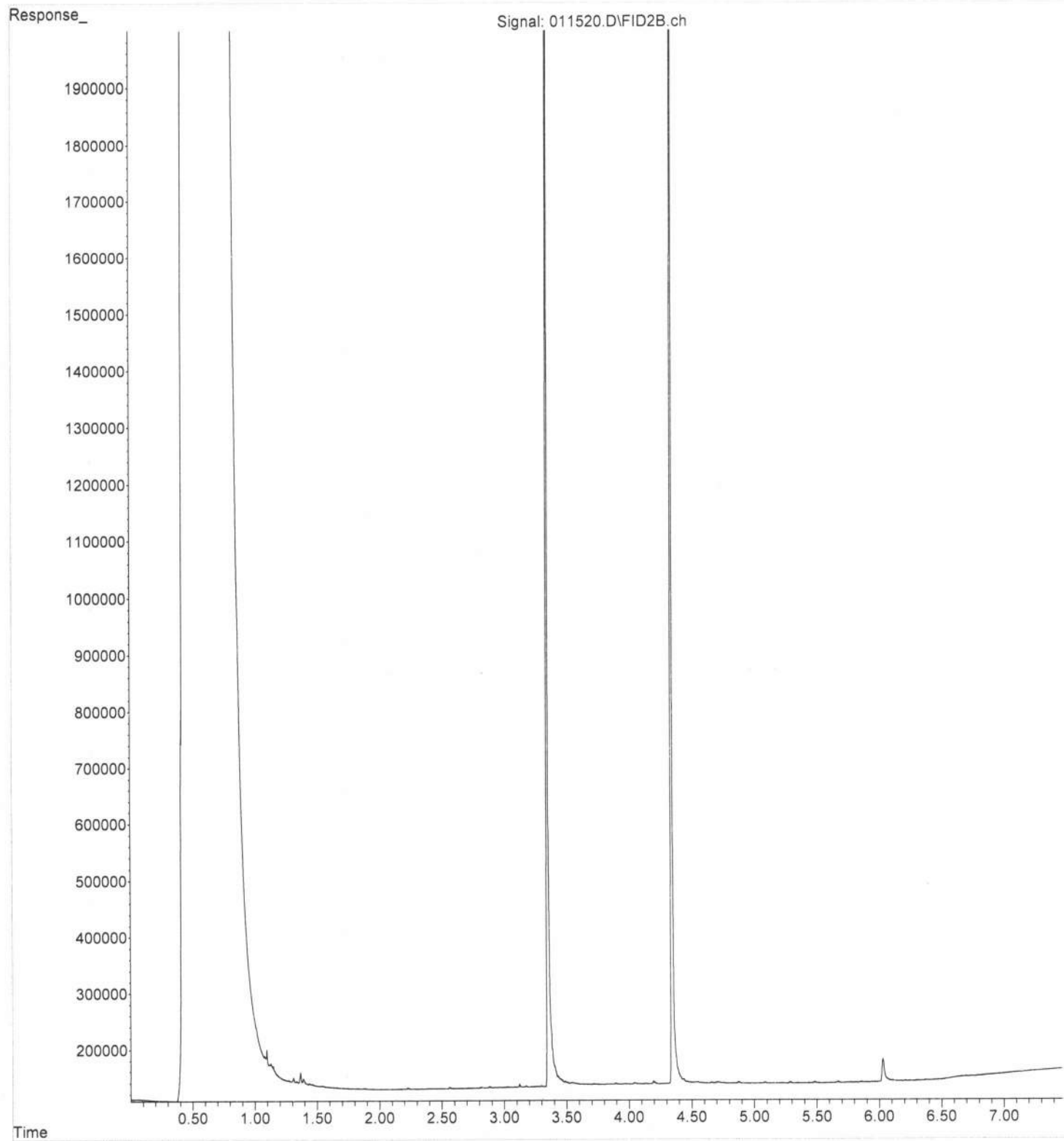
[illegible]

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------|---------------------------------|-------|
|  | Andrew Nakahara | ITA | 4/15/24 | 11:20 |
| Received by:  | ANH PHAN | ESB | 6/15/24 | 11:20 |
| Relinquished by: | | | Samples received at <u>1</u> °C | |
| Received by: | | | | |

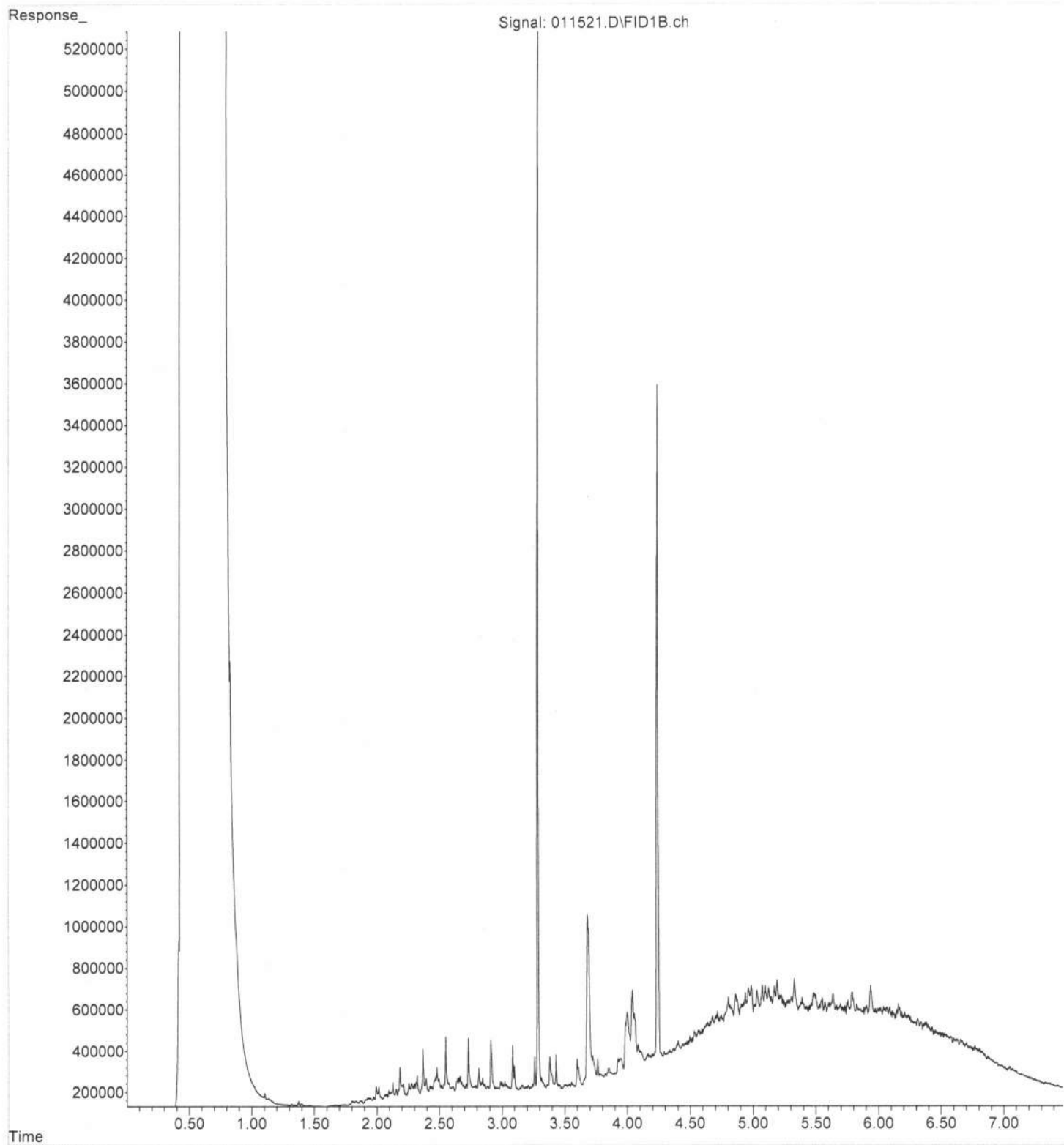
File : P:\Proc_GC13\01-15-24\011520.D
Operator : TL
Acquired : 15 Jan 2024 03:32 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-01
Misc Info : 8701-16
Vial Number: 17

ERR



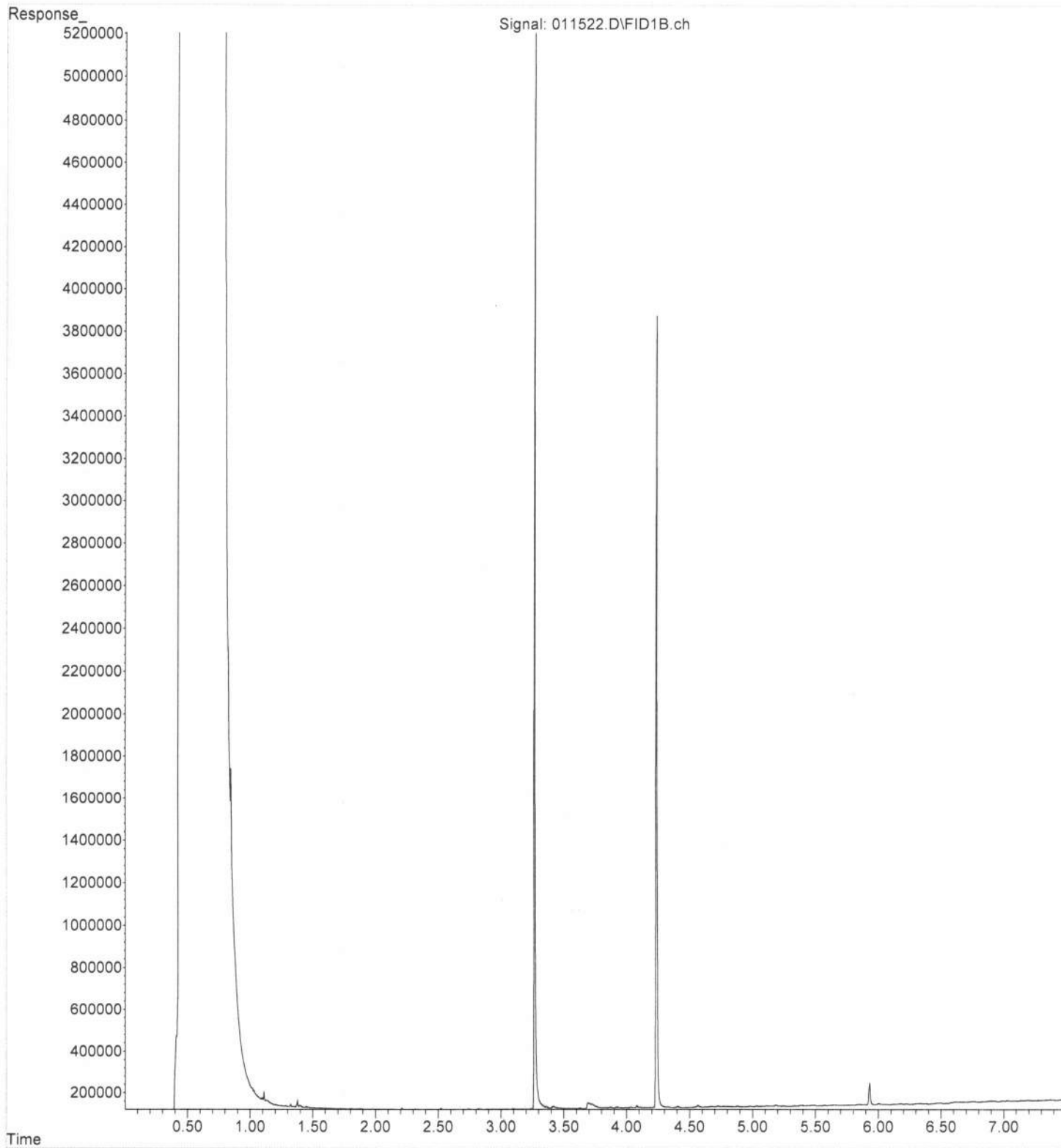
File : P:\Proc_GC13\01-15-24\011521.D
Operator : TL
Acquired : 15 Jan 2024 03:43 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-02
Misc Info : 8 J 01-16
Vial Number: 18

ERR



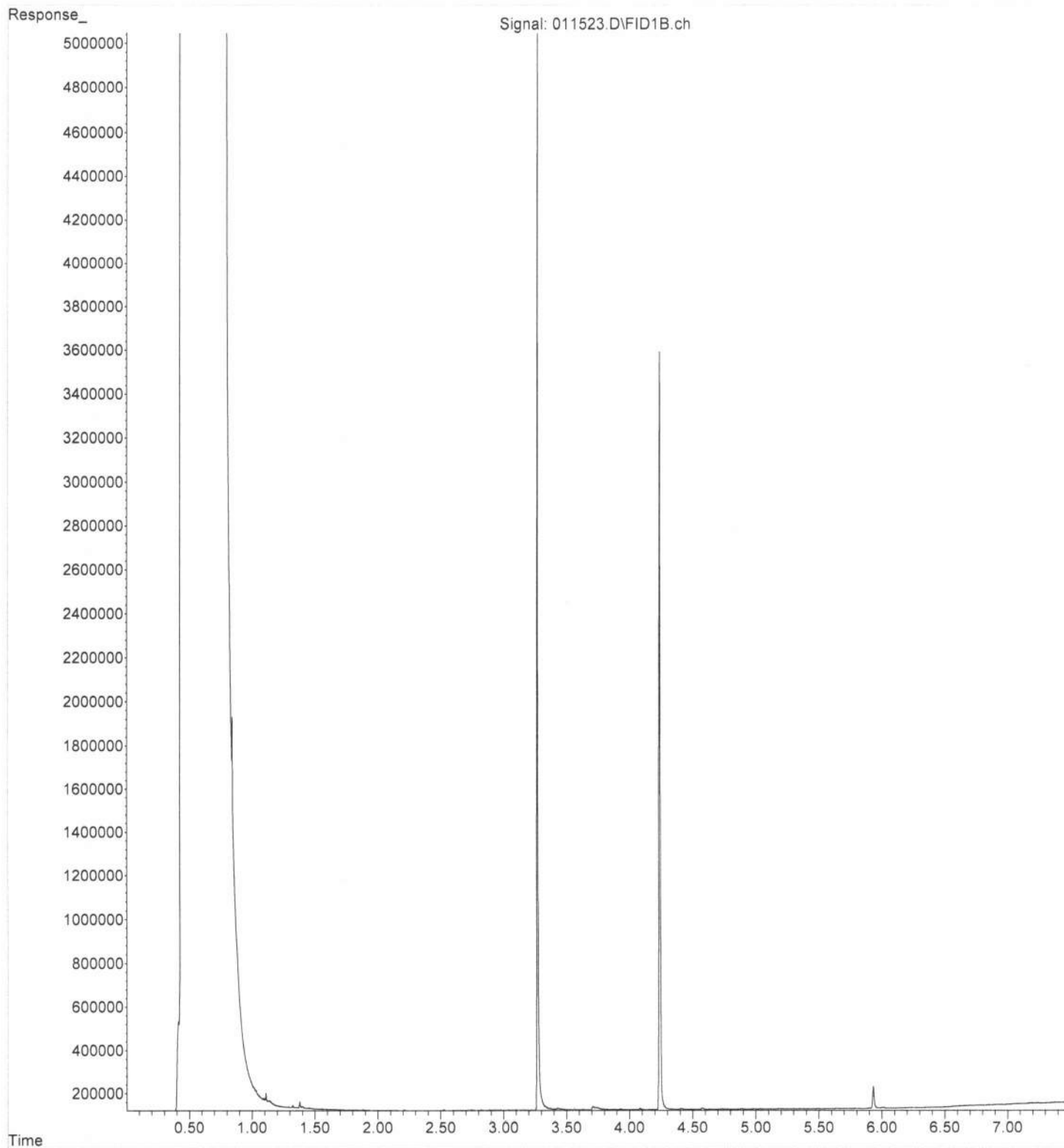
File :P:\Proc_GC13\01-15-24\011522.D
Operator : TL
Acquired : 15 Jan 2024 03:54 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401110-03
Misc Info : 8 J0116
Vial Number: 19

ERR



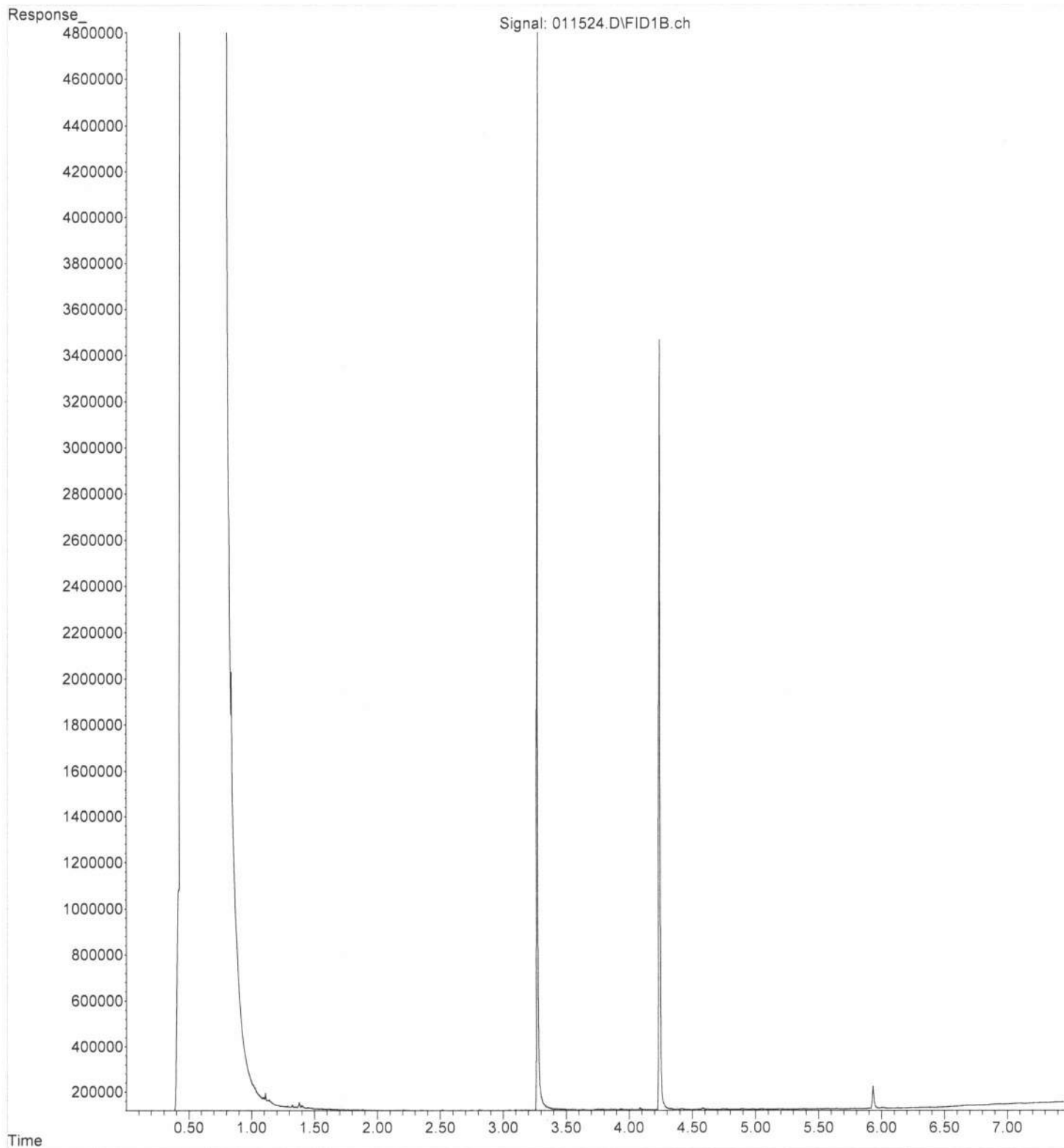
File :P:\Proc_GC13\01-15-24\011523.D
Operator : TL
Acquired : 15 Jan 2024 04:05 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401170-04
Misc Info : *8 Feb 16*
Vial Number: 20

ERR



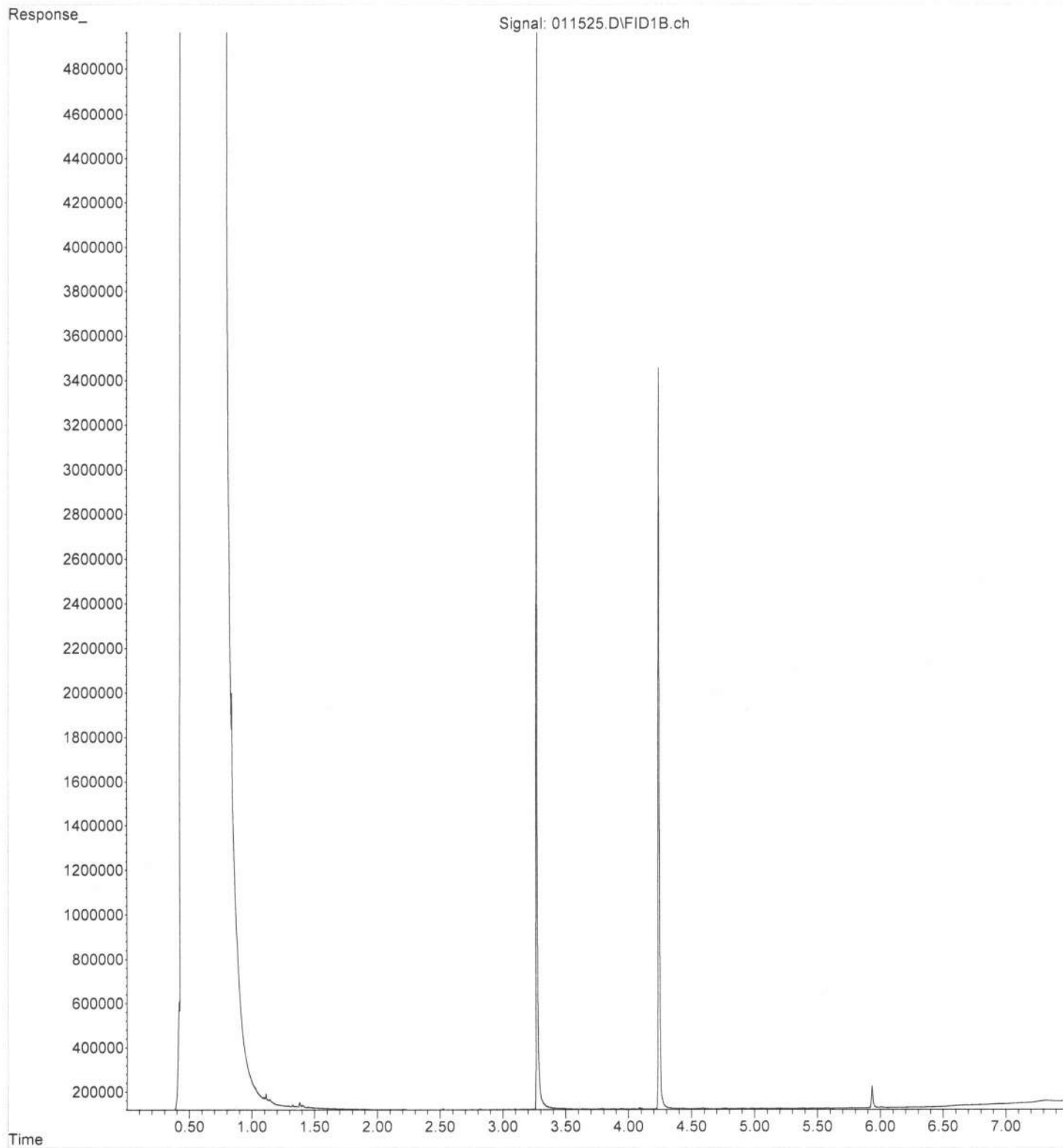
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Operator : TL
Acquired : 15 Jan 2024 04:16 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401170-05
Misc Info : 8 Feb 16
Vial Number: 21

ERR



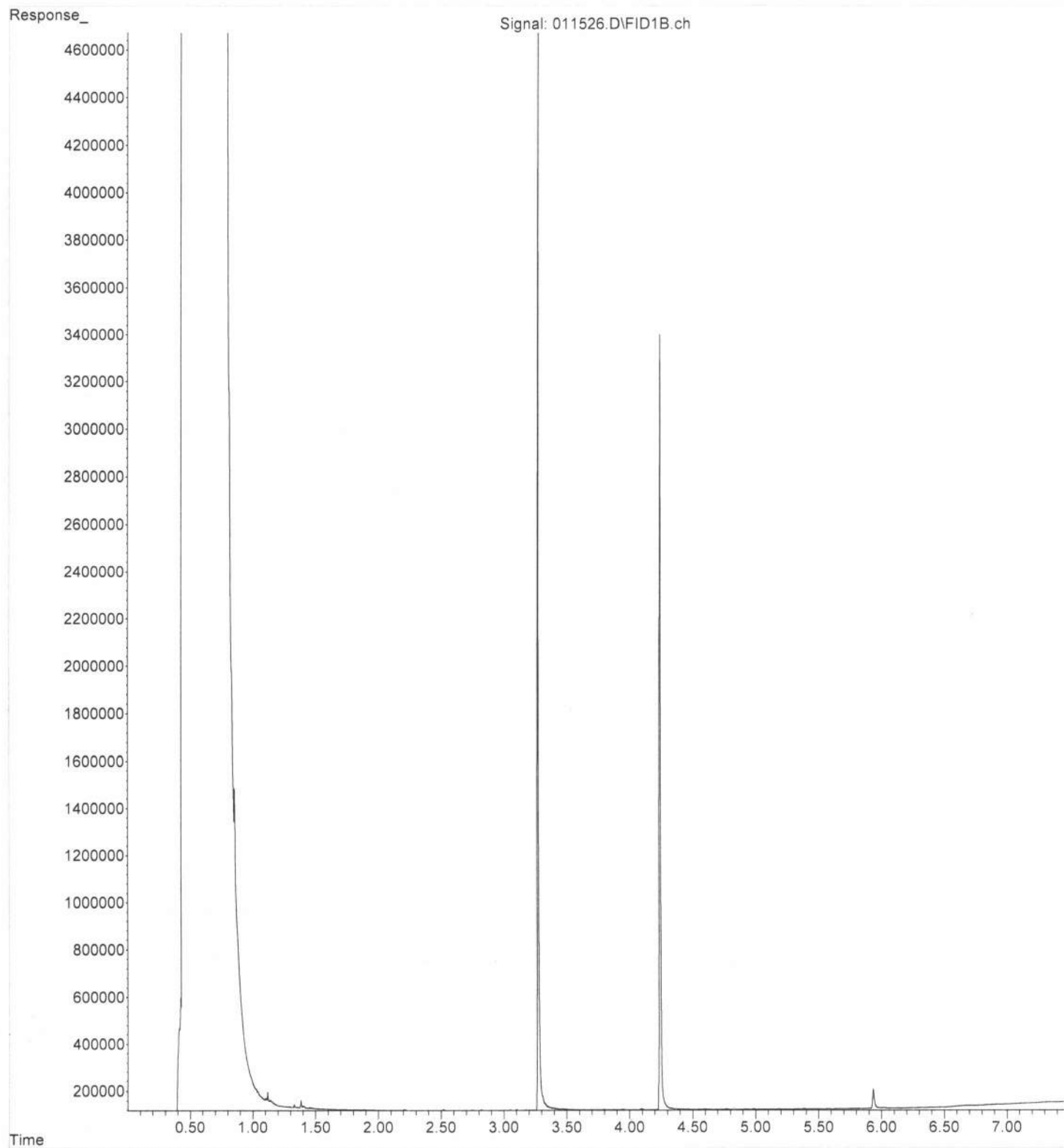
File : P:\Proc_GC13\01-15-24\011525.D
Operator : TL
Acquired : 15 Jan 2024 04:27 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401110-06
Misc Info : 8 401.16
Vial Number: 22

ERR



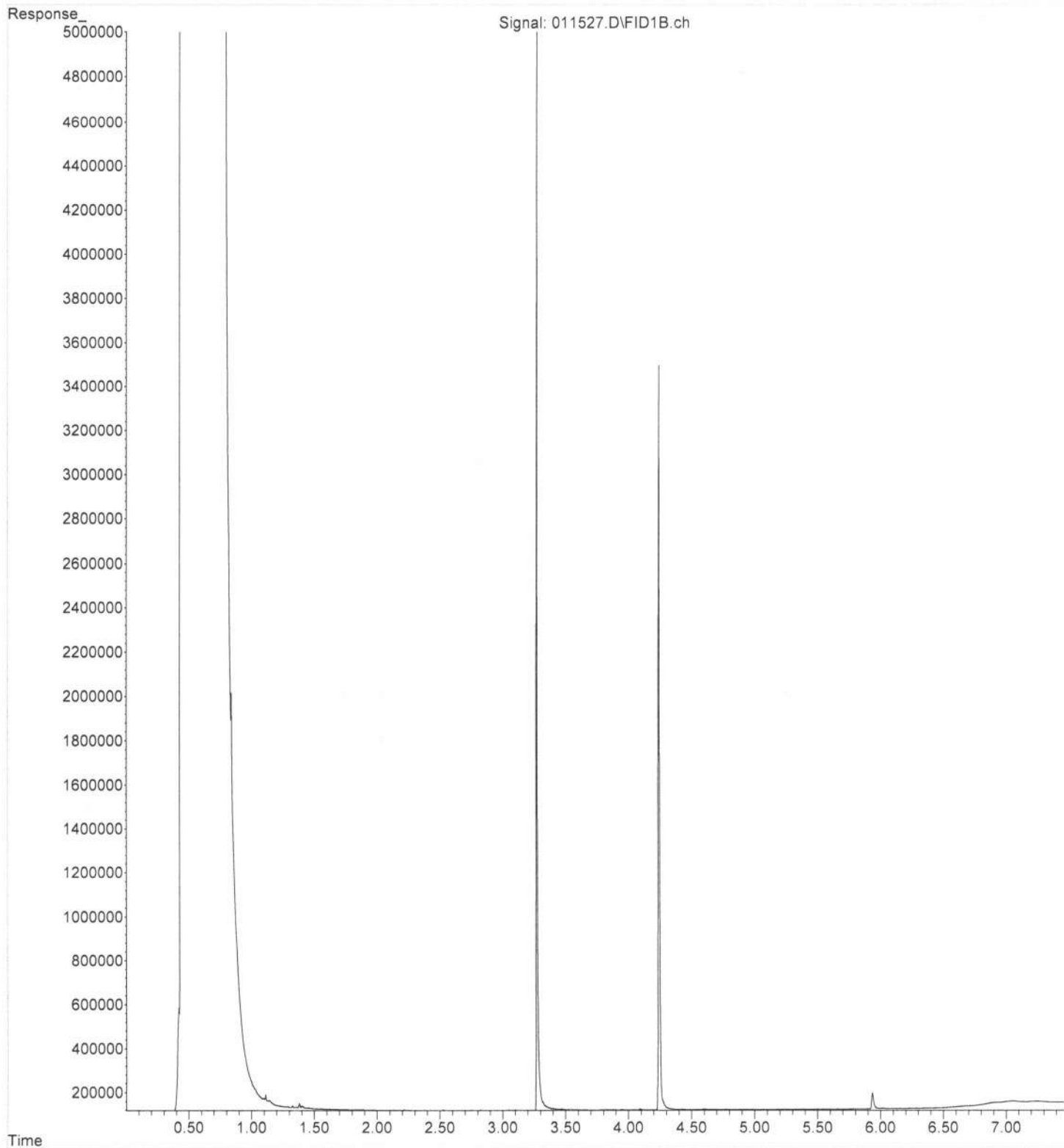
File : P:\Proc_GC13\01-15-24\011526.D
Operator : TL
Acquired : 15 Jan 2024 04:38 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401170-08
Misc Info : 8 401.16
Vial Number: 23

ERR



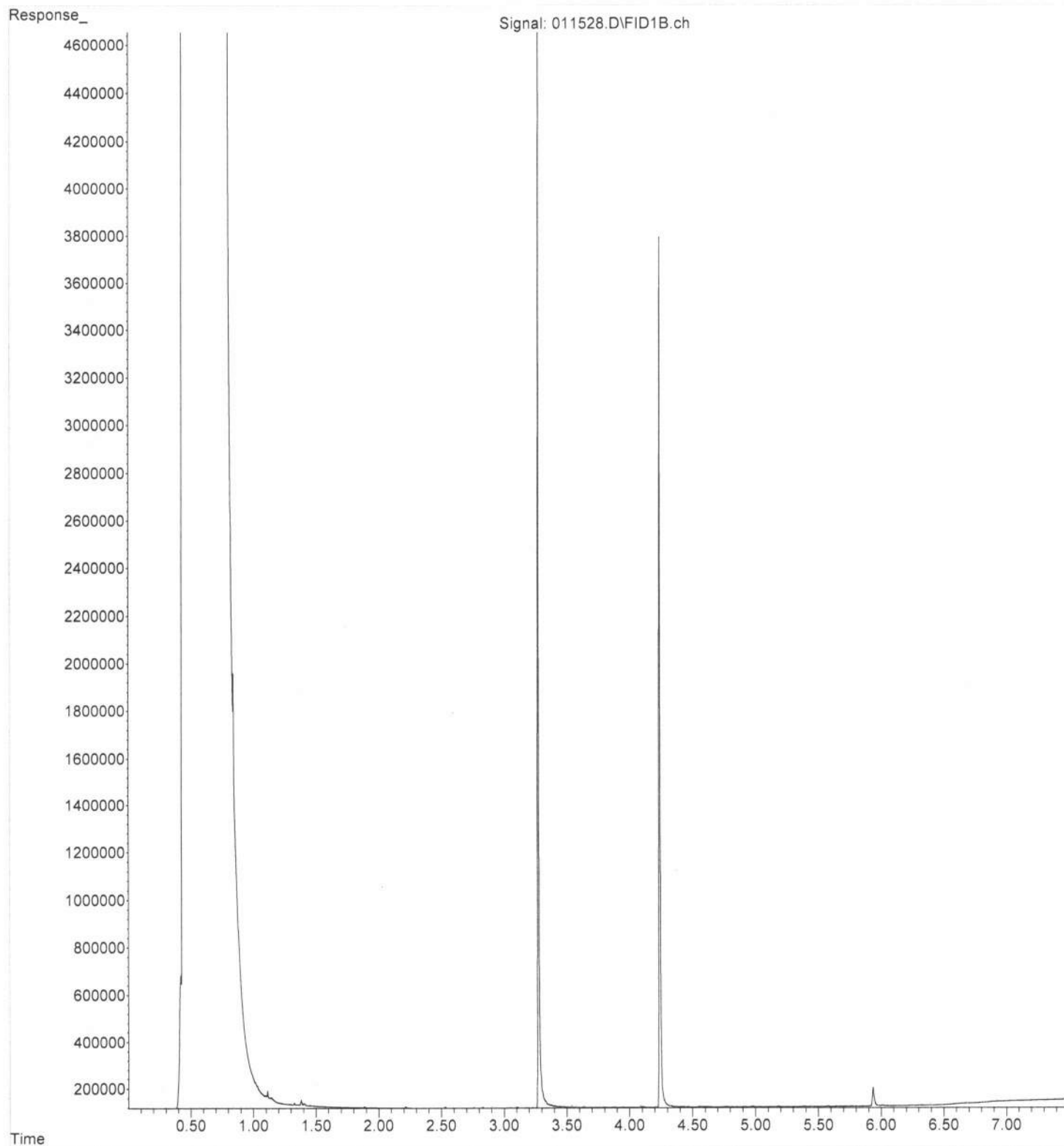
File : P:\Proc_GC13\01-15-24\011527.D
Operator : TL
Acquired : 15 Jan 2024 04:49 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 4011~~10~~-09
Misc Info : 8 Feb 16
Vial Number: 24

ERR



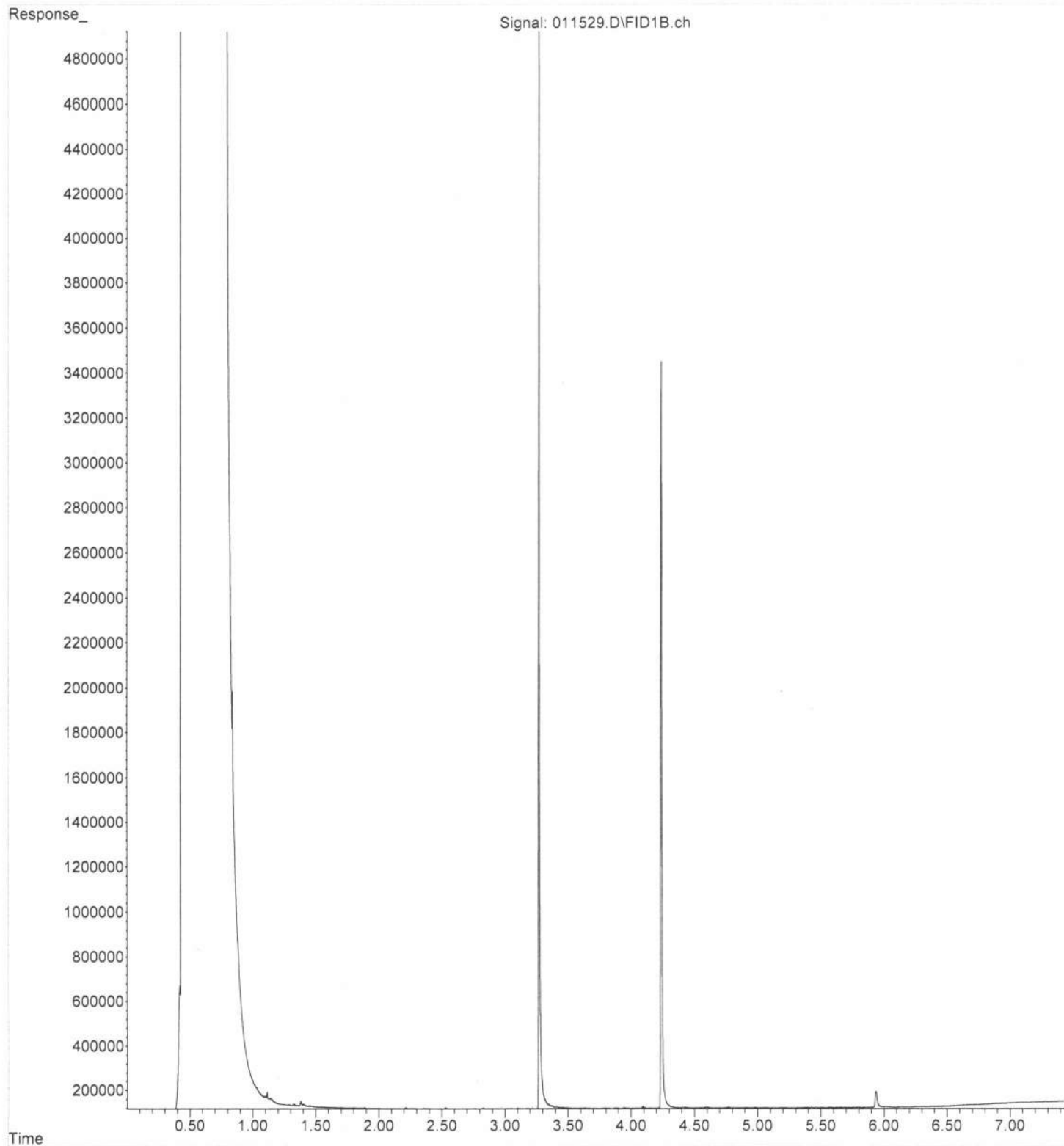
File : P:\Proc_GC13\01-15-24\011528.D
Operator : TL
Acquired : 15 Jan 2024 05:01 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401160-10
Misc Info : 8701-15
Vial Number: 25

ERR



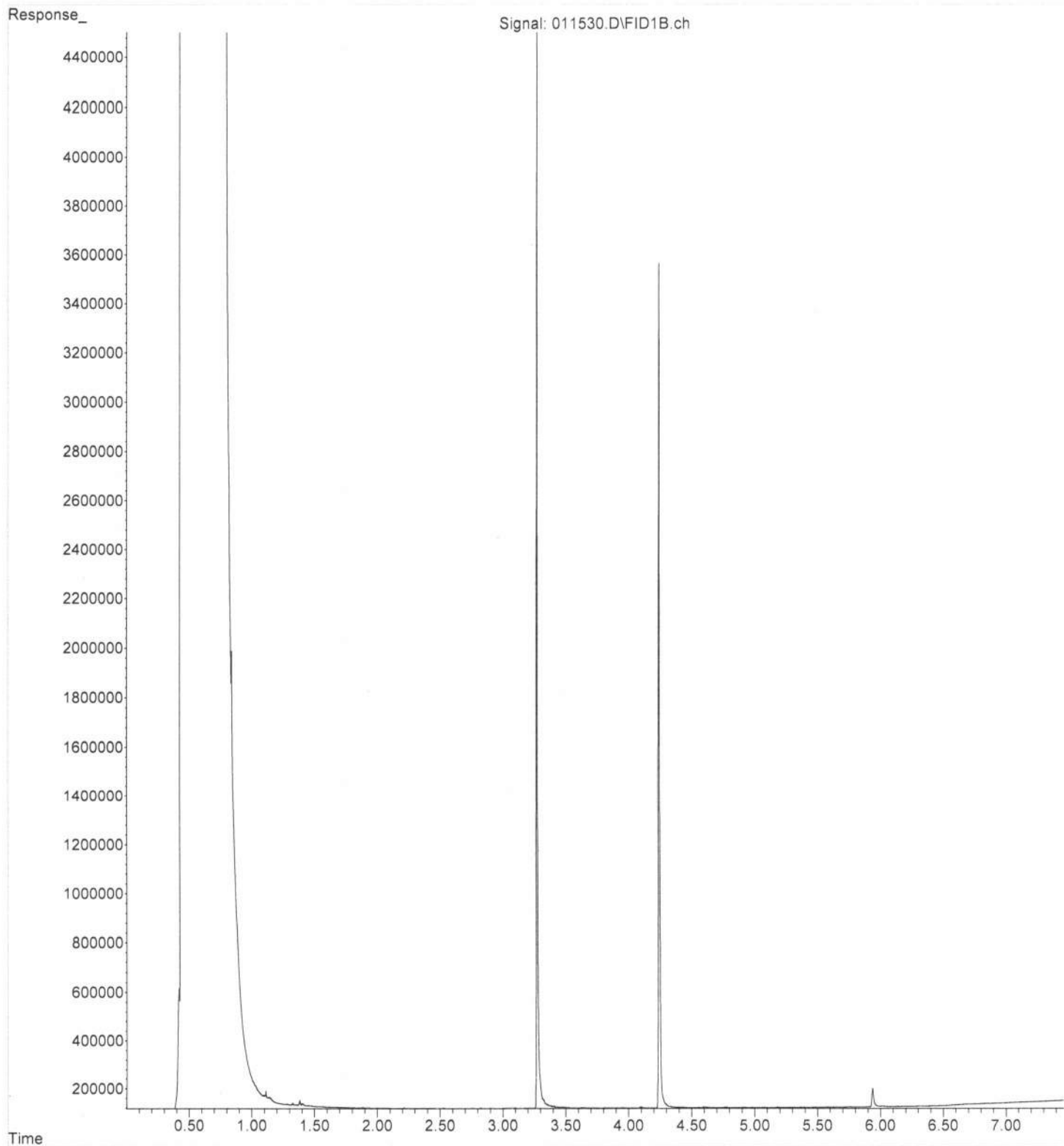
File : P:\Proc_GC13\01-15-24\011529.D
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Acquired : 15 Jan 2024 05:12 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 40110-11
Misc Info : 8 Jan 16
Vial Number: 26

ERR



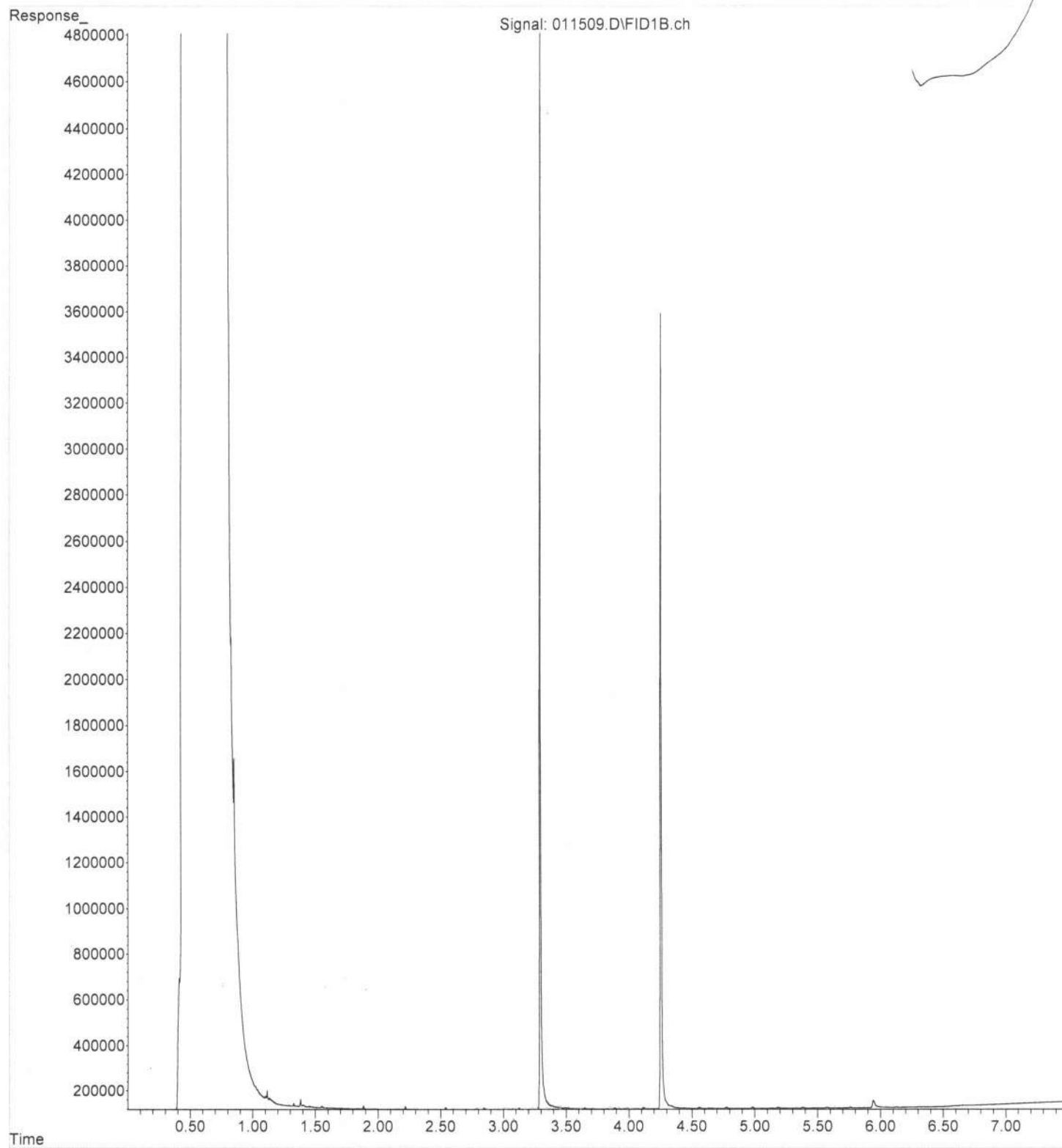
File : P:\Proc_GC13\01-15-24\011530.D
Operator : TL
Acquired : 15 Jan 2024 05:23 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401170-12
Misc Info : 8701.16
Vial Number: 27

ERR



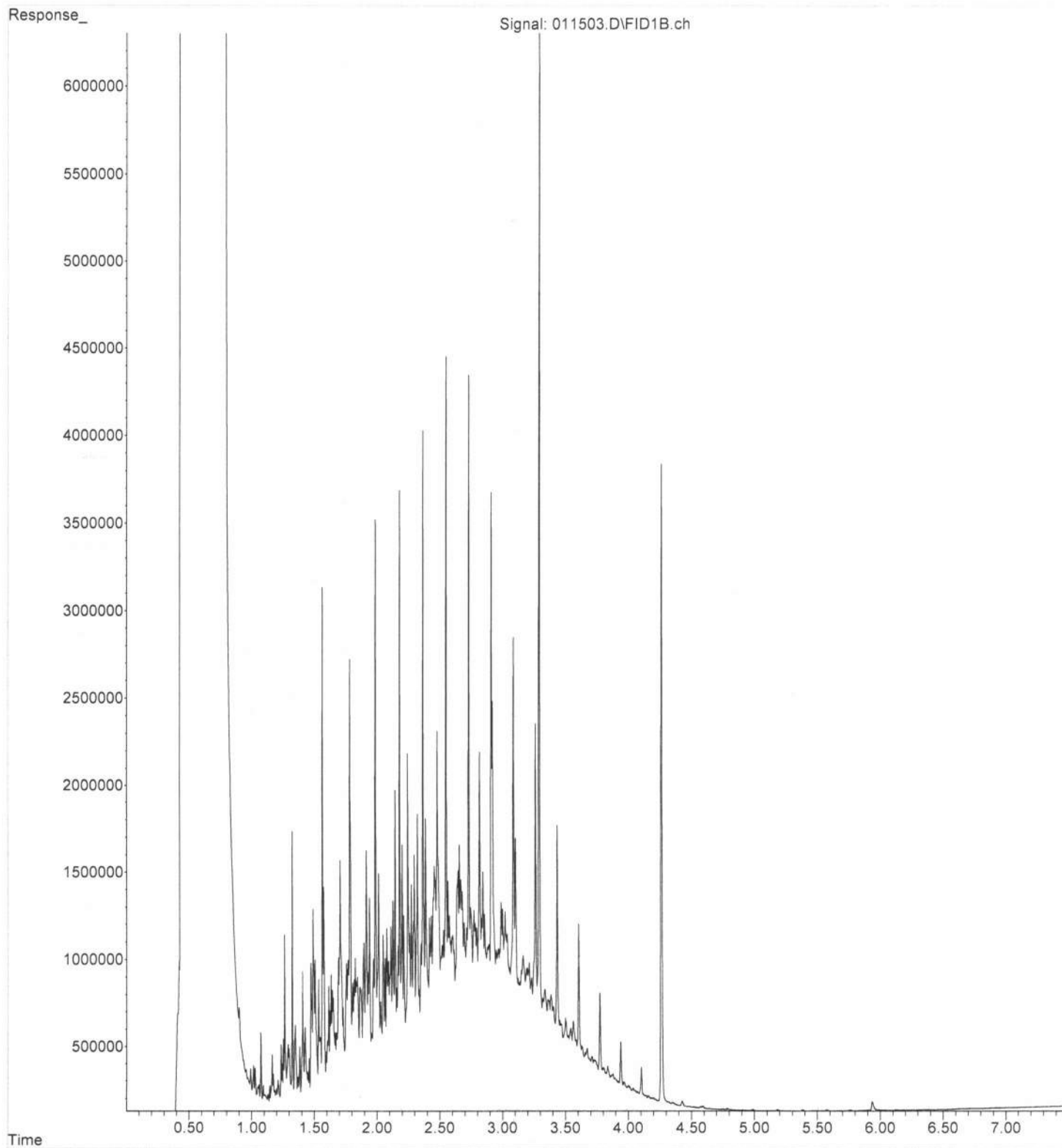
File :P:\Proc_GC13\01-15-24\011509.D
Operator : TL
Acquired : 15 Jan 2024 09:34 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-145 mb
Misc Info :
Vial Number: 11

ERR

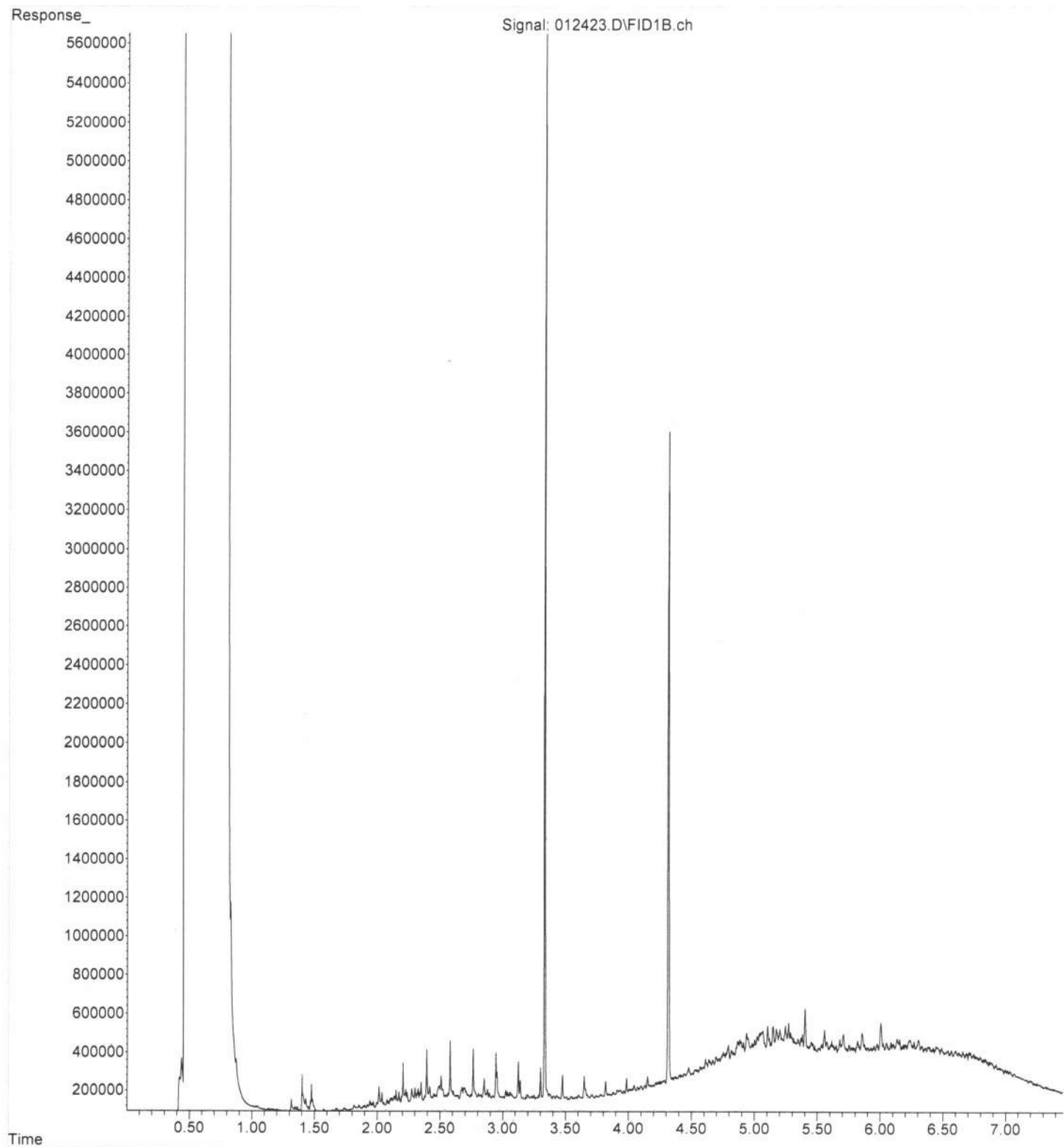


File : P:\Proc_GC13\01-15-24\011503.D
Operator : TL
Acquired : 15 Jan 2024 07:48 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

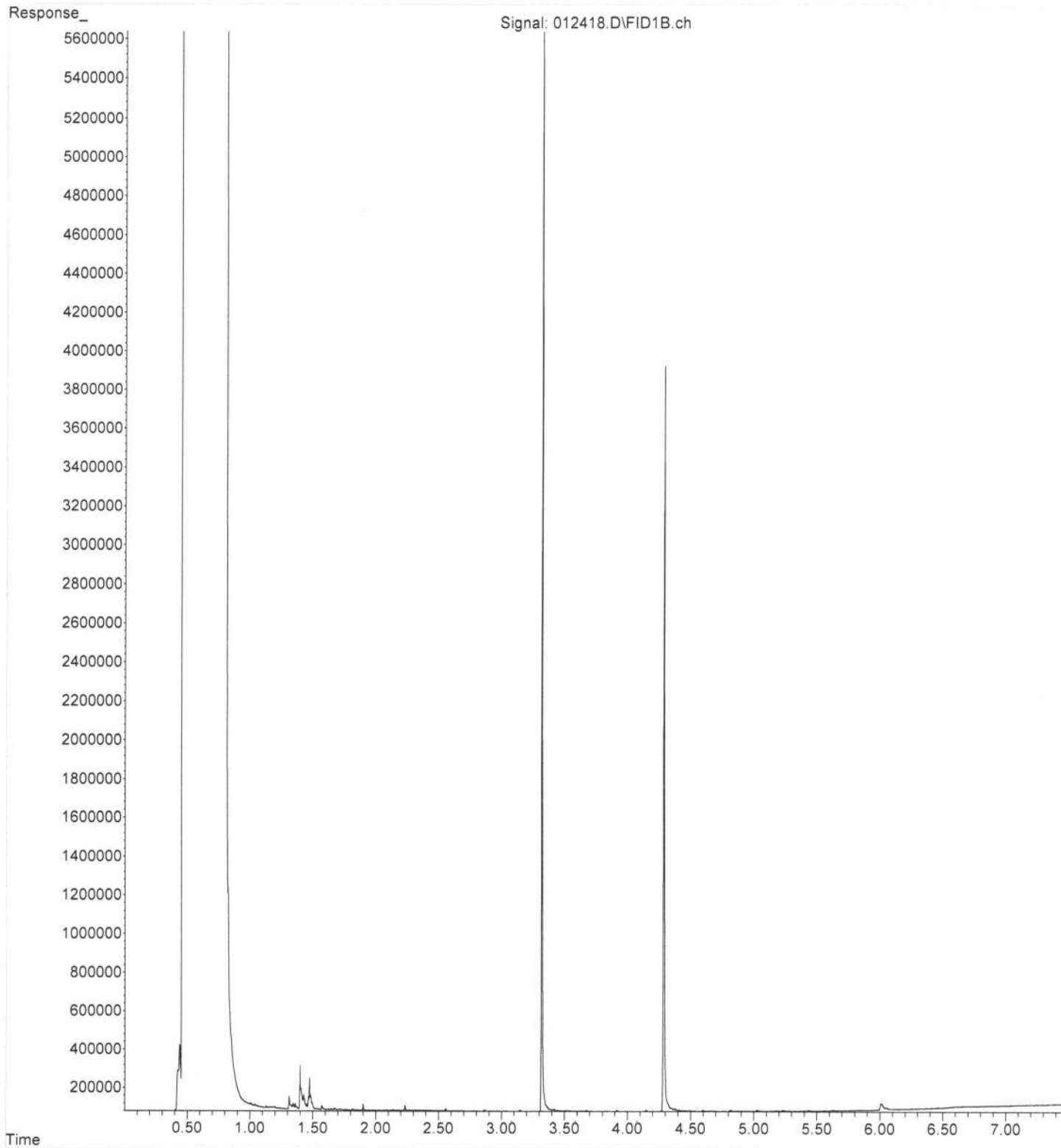
ERR



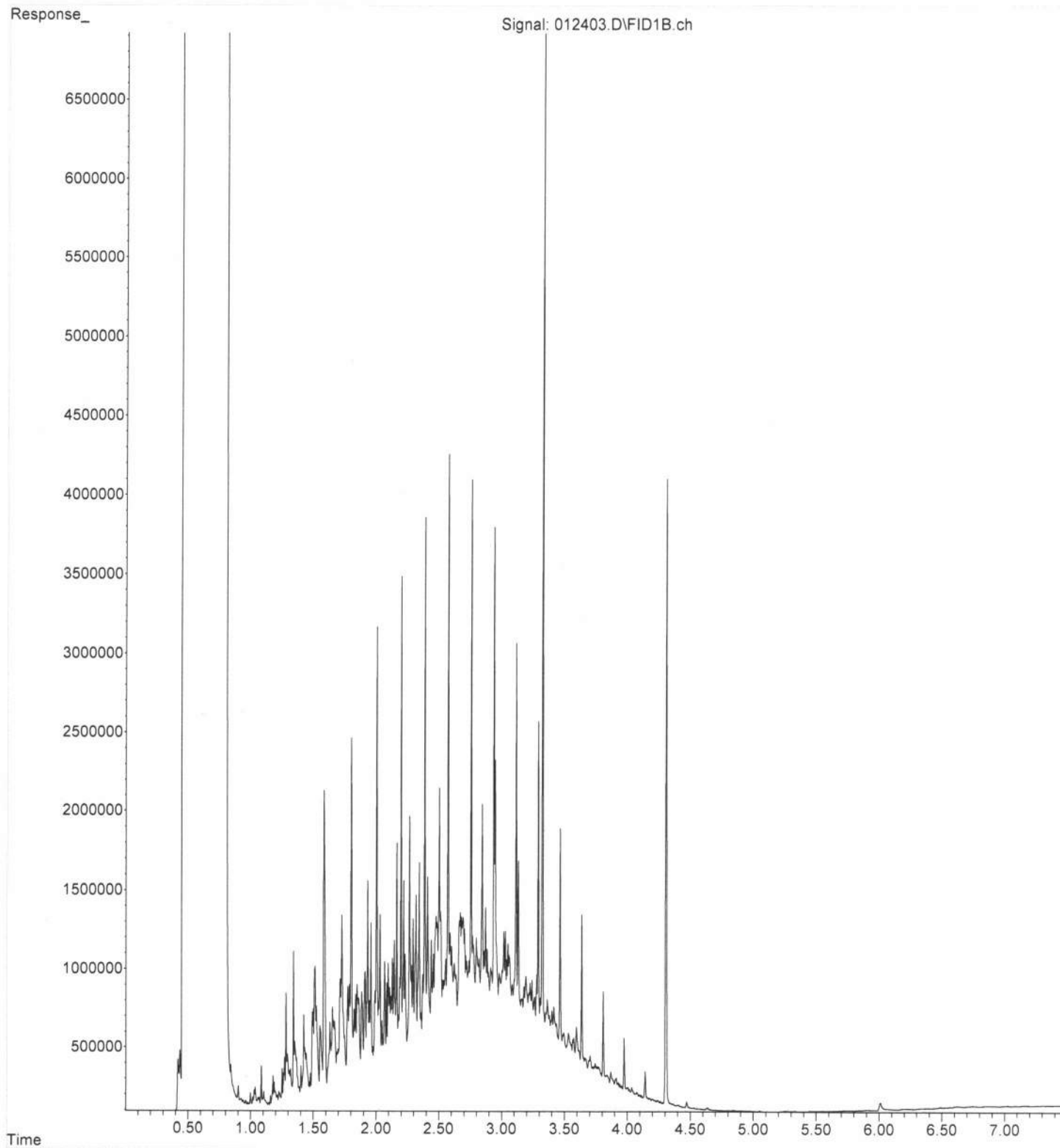
File :P:\Proc_GC10\01-24-24\012423.D
Operator : IJL
Acquired : 24 Jan 2024 03:50 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 401180-02 sg
Misc Info :
Vial Number: 21



File :P:\Proc_GC10\01-24-24\012418.D
Operator : IJL
Acquired : 24 Jan 2024 02:52 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 04-145 mb sg
Misc Info :
Vial Number: 16



File :P:\Proc_GC10\01-24-24\012403.D
Operator : IJL
Acquired : 24 Jan 2024 08:06 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 500 DX 70-26F
Misc Info :
Vial Number: 3





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401180
Work Order Number: 2401315

January 31, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/17/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 01/31/2024

CLIENT: Friedman & Bruya
Project: 401180
Work Order: 2401315

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2401315-001 | MW-19D-S2 | 01/10/2024 10:00 AM | 01/17/2024 10:53 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya
Project: 401180

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401180

Lab ID: 2401315-001

Collection Date: 1/10/2024 10:00:00 AM

Client Sample ID: MW-19D-S2

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42666

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|----|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 107 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C12-C16) | 28.2 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C16-C21) | 21.1 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C21-C34) | 91.3 | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 107 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C12-C16) | 20.0 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C16-C21) | 52.0 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C21-C34) | 41.4 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Surr: 1-Chlorooctadecane | 50.4 | 50 - 150 | D | %Rec | 5 | 1/23/2024 5:29:47 PM |
| Surr: o-Terphenyl | 67.2 | 50 - 150 | D | %Rec | 5 | 1/23/2024 5:29:47 PM |

NOTES:

Diluted due to matrix.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42713

Analyst: SG

| | | | | | | |
|---------------------------------|-------|----------|-----|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 0.460 | 0.997 | J | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 1.52 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 2.13 | 0.997 | Q+ | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 0.831 | 0.997 | Q-J | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 0.187 | 0.997 | JH | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1.29 | 0.997 | Q- | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1.44 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 1.44 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 1.22 | 0.997 | Q- | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Surr: 2,5-dibromotoluene | 83.8 | 60 - 140 | H | %Rec | 1 | 1/26/2024 1:23:00 PM |
| Surr: 2,5-dibromotoluene | 67.3 | 60 - 140 | | %Rec | 1 | 1/24/2024 8:00:00 PM |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R89073

Analyst: ZD

| | | | | | | |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 7.55 | 0.500 | | wt% | 1 | 1/18/2024 8:20:25 AM |
|------------------|------|-------|--|-----|---|----------------------|

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42666 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
| Client ID: MBLKS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863392 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 50.9 | | 100.0 | | 50.9 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42666 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MBLKS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863399 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 72.1 | | 100.0 | | 72.1 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42666 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
| Client ID: LCSS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863393 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 107 | 20.0 | 250.0 | 0 | 42.6 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 67.1 | 10.0 | 125.0 | 0 | 53.7 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 67.7 | 10.0 | 125.0 | 0 | 54.2 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 67.4 | 10.0 | 125.0 | 0 | 53.9 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 83.9 | 10.0 | 125.0 | 0 | 67.1 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 55.4 | | 100.0 | | 55.4 | 50 | 150 | | | | |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Sample ID: LCS-42666 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: LCSS | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | SeqNo: 1863400 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 140 | 20.0 | 250.0 | 0 | 56.0 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 104 | 10.0 | 125.0 | 0 | 82.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 100 | 10.0 | 125.0 | 0 | 80.1 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 101 | 10.0 | 125.0 | 0 | 81.1 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 93.6 | 10.0 | 125.0 | 0 | 74.9 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 74.3 | | 100.0 | | 74.3 | 50 | 150 | | | | |

| Sample ID: 2401315-001AMS | SampType: MS | Units: mg/Kg-dry | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | | |
|----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-19D-S2 | Batch ID: 42666 | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863395 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 113 | 106 | 265.4 | 0 | 42.6 | 6.01 | 130 | | | | D |
| Aliphatic Hydrocarbon (C10-C12) | 65.6 | 53.1 | 132.7 | 0 | 49.4 | 11.6 | 127 | | | | D |
| Aliphatic Hydrocarbon (C12-C16) | 79.1 | 53.1 | 132.7 | 28.19 | 38.4 | 24.7 | 129 | | | | D |
| Aliphatic Hydrocarbon (C16-C21) | 76.0 | 53.1 | 132.7 | 21.13 | 41.3 | 25.5 | 132 | | | | D |
| Aliphatic Hydrocarbon (C21-C34) | 138 | 53.1 | 132.7 | 91.32 | 35.4 | 21.4 | 138 | | | | D |
| Surr: 1-Chlorooctadecane | 46.4 | | 106.2 | | 43.7 | 50 | 150 | | | | DS |

NOTES:

S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed and recovered within range.
 Diluted due to matrix.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MW-19D-S2 | | Batch ID: 42666 | | Analysis Date: 1/23/2024 | | | | | SeqNo: 1863402 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 139 | 106 | 265.4 | 0 | 52.5 | 12.6 | 130 | | | | D |
| Aromatic Hydrocarbon (C10-C12) | 97.9 | 53.1 | 132.7 | 0 | 73.8 | 26.3 | 130 | | | | D |
| Aromatic Hydrocarbon (C12-C16) | 109 | 53.1 | 132.7 | 20.01 | 67.0 | 23.3 | 139 | | | | D |
| Aromatic Hydrocarbon (C16-C21) | 145 | 53.1 | 132.7 | 52.00 | 70.1 | 32.2 | 131 | | | | D |
| Aromatic Hydrocarbon (C21-C34) | 152 | 53.1 | 132.7 | 41.41 | 83.1 | 35.8 | 139 | | | | D |
| Surr: o-Terphenyl | 75.7 | | 106.2 | | 71.3 | 50 | 150 | | | | D |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|----------------------------------|------------------------|-------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001AMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MW-19D-S2 | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863402 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

NOTES:

Diluted due to matrix.

| Sample ID: 2401315-001AMSD | SampType: MSD | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-19D-S2 | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | | SeqNo: 1863396 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 123 | 103 | 256.6 | 0 | 47.8 | 6.01 | 130 | 113.1 | 8.22 | 30 | D |
| Aliphatic Hydrocarbon (C10-C12) | 70.3 | 51.3 | 128.3 | 0 | 54.8 | 11.6 | 127 | 65.60 | 6.91 | 30 | D |
| Aliphatic Hydrocarbon (C12-C16) | 87.5 | 51.3 | 128.3 | 28.19 | 46.2 | 24.7 | 129 | 79.14 | 10.0 | 30 | D |
| Aliphatic Hydrocarbon (C16-C21) | 93.5 | 51.3 | 128.3 | 21.13 | 56.4 | 25.5 | 132 | 75.95 | 20.8 | 30 | D |
| Aliphatic Hydrocarbon (C21-C34) | 164 | 51.3 | 128.3 | 91.32 | 56.9 | 21.4 | 138 | 138.3 | 17.2 | 30 | D |
| Surr: 1-Chlorooctadecane | 51.6 | | 102.6 | | 50.2 | 50 | 150 | | 0 | | D |

NOTES:

Diluted due to matrix.

| Sample ID: 2401315-001AMSD | SampType: MSD | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-19D-S2 | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | | SeqNo: 1863403 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 145 | 103 | 256.6 | 0 | 56.4 | 12.6 | 130 | 139.2 | 3.83 | 30 | D |
| Aromatic Hydrocarbon (C10-C12) | 95.1 | 51.3 | 128.3 | 0 | 74.1 | 26.3 | 130 | 97.87 | 2.89 | 30 | D |
| Aromatic Hydrocarbon (C12-C16) | 99.1 | 51.3 | 128.3 | 20.01 | 61.6 | 23.3 | 139 | 109.0 | 9.50 | 30 | D |
| Aromatic Hydrocarbon (C16-C21) | 121 | 51.3 | 128.3 | 52.00 | 54.0 | 32.2 | 131 | 145.0 | 17.8 | 30 | D |
| Aromatic Hydrocarbon (C21-C34) | 182 | 51.3 | 128.3 | 41.41 | 109 | 35.8 | 139 | 151.6 | 18.1 | 30 | D |
| Surr: o-Terphenyl | 68.1 | | 102.6 | | 66.4 | 50 | 150 | | 0 | | D |

NOTES:

Diluted due to matrix.

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42713 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865040 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 20.5 | 2.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 12.9 | 2.50 | 10.00 | 0 | 129 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 20.3 | 2.50 | 10.00 | 0 | 203 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C10-C12) | 13.1 | 2.50 | 10.00 | 0 | 131 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C8-C10) | 34.9 | 2.50 | 50.00 | 0 | 69.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C10-C12) | 6.27 | 2.50 | 10.00 | 0 | 62.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 6.22 | 2.50 | 10.00 | 0 | 62.2 | 70 | 130 | | | | S |
| Surr: 2,5-dibromotoluene | 2.02 | | 2.500 | | 81.0 | 60 | 140 | | | | |

| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865036 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 0.989 | 2.50 | | 0 | 0 | | | | | | J |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | 1.30 | 2.50 | | 0 | 0 | | | | | | J |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.75 | | 2.500 | | 70.0 | 60 | 140 | | | | |

| Sample ID: 2401315-001BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-19D-S2 | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | 0 | 0 | | | 0 | 0 | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 0.997 | | 0 | 0 | | | 0.4596 | 200 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | 0 | 0 | | | 0 | 0 | 25 | |
| Aliphatic Hydrocarbon (C10-C12) | 2.21 | 0.997 | | 0 | 0 | | | 2.132 | 3.80 | 25 | Q+ |
| Aromatic Hydrocarbon (C8-C10) | 1.16 | 0.997 | | 0 | 0 | | | 0.8308 | 32.7 | 25 | BQ- |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89314 | | |
| Client ID: MW-19D-S2 | Batch ID: 42713 | Analysis Date: 1/24/2024 | | | | | | | SeqNo: 1865038 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 1.17 | 0.997 | | 0 | 0 | | | 1.288 | 9.87 | 25 | Q- |
| Aromatic Hydrocarbon (C12-C13) | 1.35 | 0.997 | | 0 | 0 | | | 1.219 | 10.2 | 25 | Q- |
| Surr: 2,5-dibromotoluene | 0.657 | | 0.9971 | | 65.9 | 60 | 140 | | 0 | 0 | |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42713 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
| Client ID: LCSS | Batch ID: 42713 | Analysis Date: 1/25/2024 | | | | | | | SeqNo: 1865012 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 17.9 | 2.50 | 20.00 | 0 | 89.3 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 2.50 | 10.00 | 0 | 112 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 12.0 | 2.50 | 10.00 | 0 | 120 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.7 | 2.50 | 10.00 | 0 | 107 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 52.3 | 2.50 | 50.00 | 0 | 105 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.2 | 2.50 | 10.00 | 0 | 102 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.60 | | 2.500 | | 104 | 60 | 140 | | | | |

| Sample ID: MB-42713 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MBLKS | Batch ID: 42713 | Analysis Date: 1/26/2024 | | | | | | | SeqNo: 1864974 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.83 | | 2.500 | | 73.3 | 60 | 140 | | | | |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
| Client ID: MBLKS | | Batch ID: 42713 | | Analysis Date: 1/26/2024 | | | | | | SeqNo: 1864974 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42713 | Analysis Date: 1/26/2024 | | | | | | | SeqNo: 1864986 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | 0 | 0 | | | 0.4976 | 200 | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | 24.9 | 1.40 | | 0 | 0 | | | 22.74 | 9.25 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | 33.5 | 1.40 | | 0 | 0 | | | 33.57 | 0.230 | 25 | |
| Aromatic Hydrocarbon (C8-C10) | 44.7 | 1.40 | | 0 | 0 | | | 44.93 | 0.405 | 25 | |
| Aromatic Hydrocarbon (C12-C13) | 19.2 | 1.40 | | 0 | 0 | | | 18.77 | 2.48 | 25 | |
| Surr: 2,5-dibromotoluene | 1.49 | | 1.401 | | 106 | 60 | 140 | | 0 | 0 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401315
 Date Received: 1/17/2024 10:53:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
 MeOH ☐
 NA ☒
 10. Is there headspace in the VOA vials? Yes ☐ No ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2401315

TURNAROUND TIME

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME

☒ Standard TAT

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Page 13 of 13

[illegible]

Fax (206) 283-5044

TIME

5201

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 8, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on January 15, 2024 from the Whidbey Marine 024475-001, F&BI 401180 project. The sample IDs have been amended.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0207R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 7, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the additional results from the testing of material submitted on January 15, 2024 from the Whidbey Marine 024475-001, F&BI 401180 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0207R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 15, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 024475-001, F&BI 401180 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401180 -01 | MW-19D-S1 |
| 401180 -02 | MW-19D-S2 |
| 401180 -03 | MW-19D-S3 |
| 401180 -04 | MW-19D-S4 |
| 401180 -05 | MW-19D-S5 |
| 401180 -06 | MW-19D-S6 |
| 401180 -07 | HA-2-51 |
| 401180 -08 | MW-20D-S1 |
| 401180 -09 | MW-20D-S2 |
| 401180 -10 | MW-20D-S3 |
| 401180 -11 | MW-20D-S4 |
| 401180 -12 | MW-20D-S5 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|---------------------------|
| Client Sample ID: | MW-20D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 024475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-12 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011717.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|---------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 024475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 04-0105 mb 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011706.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 71 | 132 |
| Toluene-d8 | 98 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/24

Date Received: 01/15/24

Project: Whidbey Marine 024475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401180-04 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 82 | 83 | 10-138 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 80 | 10-176 | 2 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 88 | 86 | 10-160 | 2 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 78 | 74 | 10-156 | 5 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 88 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 19-140 | 0 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 25-135 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 96 | 95 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 10-156 | 0 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 90 | 90 | 21-139 | 0 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 95 | 97 | 20-133 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------------------|--------------------|----------------|----------------------------|------------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2 | 89 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 96 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 94 | 64-135 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 94 | 64-135 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2 | 96 | 63-139 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

01/15/24 N2

Page # 1 of 2

401180

Report To H. Good, V. Pehlivan

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) _____

PROJECT NAME

PO #

Whitby Marine

0204475-001

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

X-EPH and VPH on

MW-19D-S2 per HG

01/16/24 ME

Notes

A-per HG

01/22/24 ME

Inductochromatograms

W/TPH analyses

Hold EPH/VPH

pending TPH

results

0'-Hold

| ANALYSES REQUESTED | | | | | | | | | | | | | | | | | |
|--------------------|--------|--------------|--------------|-------------|-----------|----------|----------|---------------|------------|---------------|---------------|----------------------------------|-------|--------------|---------------|------|----------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Dx with Silica Gel PCBs EPA-8082 | Ph+As | EDB,EDC,MTBE | EPH/VPH (HHA) | BTEX | x-EPH and VPH |
| | | | | | | | | | | | | | | | | | |
| MW-19D-S1 | 01A-F | 1/10/24 | 0940 | Soil | 6 | X | X | | | X | X | | X | X | | | Inductochromatograms |
| MW-19D-S2 | 02 | | 1000 | | | X | X | | | X | X | A | X | X | | | w/TPH analyses |
| MW-19D-S3 | 03 | | 1110 | | | X | X | | | X | X | | X | X | | | Hold EPH/VPH |
| MW-19D-S4 | 04 | | 1120 | | | X | X | | | X | X | | X | X | | | pending TPH |
| MW-19D-S5 | 05 | | 1335 | | | X | X | | | X | X | | X | X | | X | results |
| MW-19D-S6 | 06 | | 1630 | | | X | X | | | X | X | | X | X | | | 0'-Hold |
| HA-2-S1 | 07 | 1/9/24 | 1300 | | | | | | | | | | | | | | |
| MW-20D-S1 | 08 | 1/11/24 | 1430 | | | X | X | | | X | X | | X | X | | | |
| MW-20D-S2 | 09 | | 1450 | | | X | X | | | X | X | | X | X | | | |
| MW-20D-S3 | 10 | 1/12/24 | 1155 | | | X | X | | | X | X | | X | X | | | |

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Andrew Nakamura

HA

1/15/24

07:01:00

Relinquished by: _____

Received by: _____

ANH P HAN

FRB

Samples received at 11:20

Friedman & Bruya, Inc.
Ph. (206) 285-8282

Page # 4 of 5

Page # 6 of 5

TURNAROUND TIME

PO #

0204475-00

INVOICE TO

SAMPLE DISPOSAL

☐ Archive samples



☐ Other _____

Default: Discard after 30 days

ANALYSES REQUESTED

[illegible]

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|---|-----------------|---------------------|---------|-------|
|  | Andrew Nakamura | ITA | 4/15/24 | 11:20 |
| Received by:  | ANH PHAN | ESB | 6/15/24 | 11:20 |
| Relinquished by: | | Samples received at | 1 | °C |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 9, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 22, 2024 from the Whidbey Marine 0204475-001, F&BI 401269 project. There are 72 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0209R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 22, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 401269 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401269 -01 | MW-20D-S6 |
| 401269 -02 | MW-21D-S1 |
| 401269 -03 | MW-21D-S2 |
| 401269 -04 | MW-21D-S3 |
| 401269 -05 | MW-21D-S4 |
| 401269 -06 | MW-21D-S5 |
| 401269 -07 | MW-21D-S6 |
| 401269 -08 | MW-21D-S7 |
| 401269 -09 | MW-22D-S1 |
| 401269 -10 | MW-22D-S2 |
| 401269 -11 | MW-22D-S3 |
| 401269 -12 | MW-22D-S4 |
| 401269 -13 | MW-22D-S5 |
| 401269 -14 | MW-22D-S6 |
| 401269 -15 | MW-22D-S7 |
| 401269 -16 | MW-22D-S8 |
| 401269 -17 | MW-23D-S1 |
| 401269 -18 | MW-23D-S2 |
| 401269 -19 | MW-22D-Grab |

Samples MW-21D-S2, MW-21D-S4, MW-21D-S7, and MW-23D-S2 were sent to Fremont Analytical for total organic carbon analysis. In addition, sample MW-21D-S7 was sent to Fremont for EPH and VPH analyses. The reports are enclosed.

The 8260D dichlorodifluoromethane calibration standard did not meet the acceptance criteria for several compounds. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: NA

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-20D-S6 401269-01 | 6 |
| MW-21D-S1 401269-02 | 12 |
| MW-21D-S2 401269-03 | 9 |
| MW-21D-S3 401269-04 | 11 |
| MW-21D-S4 401269-05 | 11 |
| MW-21D-S5 401269-06 | 8 |
| MW-21D-S6 401269-07 | 4 |
| MW-21D-S7 401269-08 | 17 |
| MW-22D-S1 401269-09 | 3 |
| MW-22D-S2 401269-10 | 9 |
| MW-22D-S4 401269-12 | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: NA

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-22D-S5 401269-13 | 21 |
| MW-22D-S8 401269-16 | 17 |
| MW-23D-S1 401269-17 | 4 |
| MW-23D-S2 401269-18 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-20D-S6 401269-01 | <5 | 118 |
| MW-21D-S1 401269-02 | <5 | 115 |
| MW-21D-S2 401269-03 | <5 | 109 |
| MW-21D-S3 401269-04 | <5 | 117 |
| MW-21D-S4 401269-05 | <5 | 117 |
| MW-21D-S5 401269-06 | <5 | 119 |
| MW-21D-S7 401269-08 1/20 | 1,200 | ip |
| MW-22D-S1 401269-09 | <5 | 125 |
| MW-22D-S2 401269-10 | <5 | 114 |
| MW-22D-S4 401269-12 | <5 | 117 |
| MW-22D-S5 401269-13 | <5 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-22D-S8 401269-16 | 14 | 121 |
| MW-23D-S1 401269-17 | <5 | 125 |
| MW-23D-S2 401269-18 | <5 | 117 |
| Method Blank 04-0026 MB2 | <5 | 122 |
| Method Blank 04-0028 MB | <5 | 116 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-21D-S6 401269-07 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 93 |
| Method Blank 04-0026 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 103 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/24/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-22D-Grab 401269-19 | <1 | 6.1 | <1 | <3 | <100 | 74 |
| Method Blank 04-0027 MB | <1 | <1 | <1 | <3 | <100 | 70 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-20D-S6 401269-01 | <50 | <250 | 107 |
| MW-21D-S1 401269-02 | <50 | <250 | 107 |
| MW-21D-S2 401269-03 | <50 | <250 | 105 |
| MW-21D-S3 401269-04 | <50 | <250 | 102 |
| MW-21D-S4 401269-05 | <50 | <250 | 104 |
| MW-21D-S5 401269-06 | <50 | <250 | 107 |
| MW-21D-S6 401269-07 | <50 | <250 | 107 |
| MW-21D-S7 401269-08 | 990 _x | <250 | 117 |
| MW-22D-S1 401269-09 | <50 | <250 | 110 |
| MW-22D-S2 401269-10 | <50 | <250 | 105 |
| MW-22D-S4 401269-12 | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-22D-S5 401269-13 | <50 | <250 | 108 |
| MW-22D-S8 401269-16 | <50 | <250 | 109 |
| MW-23D-S1 401269-17 | <50 | <250 | 108 |
| MW-23D-S2 401269-18 | <50 | <250 | 111 |
| Method Blank 04-174 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/24/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-22D-Grab 401269-19 | 250 x | <250 | 83 |
| Method Blank 04-175 MB | <50 | <250 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-01 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-01.146 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.02 |
| Lead | 2.07 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-02 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-02.182 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.54 |
| Lead | 1.33 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-03 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-03.183 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.34 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-04 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-04.184 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.61 |
| Lead | 2.05 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-05 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-05.185 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.27 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-06 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-06.186 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.99 |
| Lead | 1.58 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-08.187 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.89 |
| Lead | 5.75 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-09 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-09.203 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.63 |
| Lead | 1.15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-10 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-10.204 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.84 |
| Lead | 1.51 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-12 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-12.205 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.03 |
| Lead | 2.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-13 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-13.206 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 7.55 |
| Lead | 4.60 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-16 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-16.207 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.91 |
| Lead | 1.60 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-17 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-17.208 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.42 |
| Lead | 1.18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-18 |
| Date Analyzed: | 01/24/24 | Data File: | 401269-18.209 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.58 |
| Lead | 1.31 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | I4-56 mb |
| Date Analyzed: | 01/23/24 | Data File: | I4-56 mb.142 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-20D-S6 | Client: Haley & Aldrich, Inc |
| Date Received: 01/22/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/23/24 | Lab ID: 401269-01 1/0.5 |
| Date Analyzed: 01/23/24 | Data File: 012311.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 99 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-02 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012312.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.015 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-03 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012313.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0092 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-04 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012314.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.019 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-05 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012315.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.042 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-06 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012316.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.022 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012317.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 84 | 120 |
| Toluene-d8 | 119 | 73 | 128 |
| 4-Bromofluorobenzene | 120 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.27 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 1.3 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 5.8 |
| Hexane | 1.7 | o-Xylene | 1.8 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | 0.55 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 2.7 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 8.5 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 19 ve |
| Benzene | <0.001 | sec-Butylbenzene | 0.39 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | 0.34 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.003 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 3.5 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012430.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 84 | 120 |
| Toluene-d8 | 108 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| 1,3,5-Trimethylbenzene | 9.0 |
| 1,2,4-Trimethylbenzene | 23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-09 1/0.5 |
| Date Analyzed: | 01/24/24 | Data File: | 012415.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.018 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 k | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 ca |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-22D-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/22/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/23/24 | Lab ID: 401269-10 1/0.5 |
| Date Analyzed: 01/23/24 | Data File: 012319.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 90 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.011 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-12 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012320.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0024 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-13 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012321.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-16 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012322.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 84 | 120 |
| Toluene-d8 | 106 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.69 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 2.4 |
| Hexane | <0.25 | o-Xylene | 0.81 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.061 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.13 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.42 |
| Benzene | 0.0040 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.13 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.22 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-23D-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/22/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/23/24 | Lab ID: 401269-17 1/0.5 |
| Date Analyzed: 01/24/24 | Data File: 012414.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0048 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 k | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 ca |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-18 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012324.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0036 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 04-0117 mb 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012309.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-Grab | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/25/24 | Lab ID: | 401269-19 |
| Date Analyzed: | 01/25/24 | Data File: | 012512.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 112 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/25/24 | Lab ID: | 04-0125 mb |
| Date Analyzed: | 01/25/24 | Data File: | 012508.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-01 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012411.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 65 | 11 | 158 |
| Terphenyl-d14 | 87 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-02 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012412.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 80 | 45 | 117 |
| 2,4,6-Tribromophenol | 62 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-03 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012413.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 80 | 45 | 117 |
| 2,4,6-Tribromophenol | 65 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-04 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012414.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 73 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 69 | 11 | 158 |
| Terphenyl-d14 | 83 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-05 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012415.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 68 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-06 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012416.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 10 | 198 |
| 2-Fluorobiphenyl | 73 | 45 | 117 |
| 2,4,6-Tribromophenol | 64 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-08 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012417.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 97 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 6.5 ve |
| 2-Methylnaphthalene | 16 ve |
| 1-Methylnaphthalene | 5.8 |
| Acenaphthylene | <0.01 |
| Acenaphthene | 0.014 |
| Fluorene | 0.053 |
| Phenanthrene | 0.088 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | 0.020 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-08 1/50 |
| Date Analyzed: | 01/25/24 | Data File: | 012515.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 92 d | 10 | 198 |
| 2-Fluorobiphenyl | 81 d | 45 | 117 |
| 2,4,6-Tribromophenol | 65 d | 11 | 158 |
| Terphenyl-d14 | 80 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| Naphthalene | 7.6 |
| 2-Methylnaphthalene | 16 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-09 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012418.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 63 | 10 | 198 |
| 2-Fluorobiphenyl | 77 | 45 | 117 |
| 2,4,6-Tribromophenol | 74 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-10 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012419.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 65 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 67 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-12 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012420.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 10 | 198 |
| 2-Fluorobiphenyl | 75 | 45 | 117 |
| 2,4,6-Tribromophenol | 68 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-13 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012421.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 70 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-16 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012422.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 10 | 198 |
| 2-Fluorobiphenyl | 83 | 45 | 117 |
| 2,4,6-Tribromophenol | 75 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.030 |
| 2-Methylnaphthalene | 0.032 |
| 1-Methylnaphthalene | 0.012 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-17 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012423.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 | 10 | 198 |
| 2-Fluorobiphenyl | 74 | 45 | 117 |
| 2,4,6-Tribromophenol | 72 | 11 | 158 |
| Terphenyl-d14 | 89 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-18 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012424.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 04-0177 mb 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012410.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 10 | 198 |
| 2-Fluorobiphenyl | 93 | 45 | 117 |
| 2,4,6-Tribromophenol | 74 | 11 | 158 |
| Terphenyl-d14 | 98 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/26/24

Date Analyzed: 01/29/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-22D-Grab 401269-19 | 710 |
| Method Blank I4-0062MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401253-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 91 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 97 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 95 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401268-11 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 85 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 85 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 87 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 90 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401285-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 86 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 84 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 88 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401269-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 104 | 104 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 100 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 100 | 100 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401269-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | 3.78 | 96 b | 102 b | 75-125 | 6 b |
| Lead | mg/kg (ppm) | 50 | 1.94 | 85 | 89 | 75-125 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 96 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401269-06 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 67 | 65 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 88 | 90 | 10-126 | 2 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 92 | 89 | 10-138 | 3 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 81 | 78 | 10-163 | 4 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 77 | 10-176 | 6 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 89 | 87 | 10-176 | 2 |
| Acetone | mg/kg (ppm) | 10 | <5 | 83 | 88 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 96 | 94 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 92 | 92 | 10-137 | 0 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 89 | 89 | 10-156 | 0 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 98 | 94 | 21-145 | 4 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 94 | 90 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 96 | 96 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 94 | 91 | 10-158 | 3 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 94 | 94 | 25-135 | 0 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 97 | 94 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 100 | 98 | 19-147 | 2 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 97 | 96 | 10-156 | 1 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 97 | 95 | 17-140 | 2 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 102 | 97 | 9-164 | 5 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 95 | 92 | 29-129 | 3 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 95 | 92 | 21-139 | 3 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 99 | 95 | 30-135 | 4 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 23-155 | 2 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 95 | 91 | 23-145 | 4 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 97 | 97 | 24-155 | 0 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 102 | 100 | 28-144 | 2 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 107 | 103 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 110 | 107 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 102 | 101 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 108 | 102 | 31-137 | 6 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 104 | 101 | 20-133 | 3 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 109 | 107 | 28-150 | 2 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 99 | 32-129 | 6 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 101 | 32-137 | 3 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 99 | 31-143 | 4 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 104 | 100 | 34-136 | 4 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 105 | 99 | 33-134 | 6 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 100 | 31-142 | 4 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 112 | 108 | 21-156 | 4 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 104 | 23-146 | 2 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 107 | 34-130 | 1 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 106 | 18-149 | 3 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 104 | 28-140 | 1 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 104 | 107 | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 101 | 103 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 31-136 | 1 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 101 | 30-137 | 1 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 10-182 | 3 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 106 | 23-145 | 4 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 106 | 21-149 | 3 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 30-131 | 1 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 99 | 103 | 29-129 | 4 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 99 | 102 | 31-132 | 3 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 105 | 104 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 104 | 106 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 109 | 116 | 10-142 | 6 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 99 | 102 | 14-157 | 3 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 102 | 106 | 20-144 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 82 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 103 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 99 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 76 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 71 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 94 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 98 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 104 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 101 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 92 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 101 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 99 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 84 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 99 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 99 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 110 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 104 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 94 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 99 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 102 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 98 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 97 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 101 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 103 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 98 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 105 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 104 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 101 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 105 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 108 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | 105 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 105 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 102 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 103 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 103 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 102 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 103 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 102 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 106 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 101 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 111 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 109 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 108 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 116 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 106 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 106 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 104 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 107 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 105 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 112 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 104 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 105 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401274-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|--------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 97 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 98 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 95 | 10-211 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 110 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 96 | 35-149 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 101 | 64-142 | 1 |
| Chloroethane | ug/L (ppb) | 10 | 99 | 101 | 70-130 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 93 | 94 | 64-140 | 1 |
| Methylene chloride | ug/L (ppb) | 10 | 92 | 99 | 43-134 | 7 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 94 | 98 | 70-130 | 4 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 100 | 70-130 | 4 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 103 | 107 | 70-130 | 4 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 98 | 100 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| Tetrachloroethene | ug/L (ppb) | 10 | 100 | 102 | 70-130 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

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Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401269-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 84 | 28-125 | 7 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 10-192 | 7 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 86 | 10-163 | 8 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 90 | 45-128 | 6 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 87 | 36-125 | 6 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 48-121 | 7 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 89 | 46-122 | 8 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 91 | 30-144 | 7 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 92 | 50-150 | 9 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 87 | 40-134 | 2 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 50-150 | 7 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 95 | 50-150 | 5 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 95 | 99 | 50-150 | 4 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 92 | 50-150 | 4 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 98 | 50-150 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 94 | 100 | 40-140 | 6 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 98 | 41-136 | 6 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 93 | 29-139 | 6 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 91 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 98 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 93 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 95 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 99 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 98 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 102 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 92 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 103 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 111 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 102 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 111 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 108 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 105 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 102 | 104 | 35-146 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

401269
Report To H. Good, V. Pehlivan
Company HA
Address _____
City, State, ZIP _____
Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY 01/22/24

C2/VW2/N3
Page # 1 of 2

| | |
|--|----------------------------|
| SAMPLERS (signature) <u>[Signature]</u> | |
| PROJECT NAME <u>Whitby Marine</u> | PO # <u>0204475-001</u> |
| REMARKS Print C-Grams Project specific RLs? - Yes / No | INVOICE TO |

| | |
|--|---|
| TURNAROUND TIME <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____ | SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days |
|--|---|

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | A-per HG 01/24/24 ME Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---------------|-------|----------|-----|-------------|----------------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | As+Pb | EDB, GPC | TOC | EPH and VPH | |
| MW-20D-56 | 01 A-F | 1/15/24 | 1235 | Soil | 6 | X | X | | | X | X | | X | X | | | Hold for other |
| MW-21D-51 | 02 | 1/16/24 | 0940 | | 1 | X | X | | | X | X | | X | X | | | analysis |
| MW-21D-52 | 03 | | 1050 | | | X | X | | | X | X | | X | X | X | | |
| MW-21D-53 | 04 | | 0950 | | | X | X | | | X | X | | X | X | | | |
| MW-21D-54 | 05 | | 1030 | | | X | X | | | X | X | | X | X | X | | |
| MW-21D-55 | 06 | | 1100 | | | X | X | | | X | X | | X | X | | | |
| MW-21D-56 | 07 | | 1140 | | | X | X | X | | | | | | | | | |
| MW-21D-57 | 08 | ✓ | 1430 | | | X | X | | | X | X | | X | X | X | A | |
| MW-22D-51 | 09 | 1/17/24 | 1330 | ✓ | 1 | X | X | | | X | X | | X | X | | | |
| MW-22D-52 | 10 | ✓ | 1340 | ✓ | 1 | X | X | | | X | X | | X | X | | | ✓ |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|---------------------------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/24/24</u> | <u>0745</u> |
| Received by: <u>[Signature]</u> | <u>VIN H</u> | <u>FR1</u> | <u>1-22-24</u> | <u>1320</u> |
| Relinquished by: | | Samples received at <u>4</u> °C | | |
| Received by: | | | | |

401269

SAMPLE CHAIN OF CUSTODY

01/22/24

C2/VW2/V3

Report To _____

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) 

PROJECT NAME

Whidbey Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____


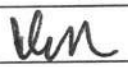
SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | A-per HG 01/22/24 ME Notes | | |
|-------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|--------------|-------|---------------|-----|----------------------------------|--|---------------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | TSS EPA 8092 | A54P6 | EP8, EP1, EP2 | TOC | 2VOCs | | |
| MW-22D-53 | 11 A-F | 1/17/24 | 1435 | soil | 6 | | | | | | | | | | | | | Hold for |
| MW-22D-54 | 12 | | 1500 | | | x | x | | | x | x | | x | x | | | | other analysis |
| MW-22D-55 | 13 | | 1530 | | | x | x | | | x | x | | x | x | | | | |
| MW-22D-56 | 14 | 1/18/24 | 1700 | | | | | | | | | | | | | | | |
| MW-22D-57 | 15 | 1/19/24 | 0920 | | | | | | | | | | | | | | | |
| MW-22D-58 | 16 A-E | | 0950 | | | x | x | | | x | x | | x | x | | | | |
| MW-23D-51 | 17 A-F | 1/19/24 | 1500 | | | x | x | | | x | x | | x | x | | | | |
| MW-23D-52 | 18 | | 1505 | | | x | x | | | x | x | | x | x | A | | | |
| MW-22D-Grab | 19 A-H | 1/18/24 | 1130 | water | 48 | x | x | x | | | | x | | | | x | | Label MW-22B-Grab GW (APD) 1/22 |
| | | | | | | | | | | | | | | | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------------------------------|---------|------|
| Relinquished by:  | Andrew Nalcabam | HA | 1/22/24 | 0745 |
| Received by:  | VINA | FB1 | 1-22-24 | 1320 |
| Relinquished by: | | Samples received at <u>4</u> °C | | |
| Received by: | | | | |



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401469

February 07, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/24/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH

Sample Moisture (Percent Moisture)

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401469

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401469-001 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/24/2024 4:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya
Project: 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2401469**
Date Reported: **2/7/2024**

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401469-001

Collection Date: 1/16/2024 2:30:00 PM

Client Sample ID: MW-21D-S7

Matrix: Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42747

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | 27.5 | 23.1 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C10-C12) | 80.4 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C12-C16) | 54.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C8-C10) | 23.8 | 23.1 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C10-C12) | 91.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C12-C16) | 102 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C16-C21) | 20.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Surr: 1-Chlorooctadecane | 51.8 | 50 - 150 | | %Rec | 1 | 2/5/2024 12:17:30 PM |
| Surr: o-Terphenyl | 79.9 | 50 - 150 | | %Rec | 1 | 2/5/2024 12:17:30 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42713

Analyst: SG

| | | | | | | |
|---------------------------------|------|----------|----|-----------|----|-----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 22.7 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 33.6 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 47.6 | 14.0 | DH | mg/Kg-dry | 10 | 1/31/2024 10:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 44.9 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 29.0 | 14.0 | DH | mg/Kg-dry | 10 | 1/31/2024 10:00:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 18.8 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Surr: 2,5-dibromotoluene | 110 | 60 - 140 | | %Rec | 1 | 1/26/2024 1:59:00 PM |

Sample Moisture (Percent Moisture)

Batch ID: R89195

Analyst: YL

| | | | | | | |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 13.4 | 0.500 | | wt% | 1 | 1/25/2024 9:31:14 AM |
|------------------|------|-------|--|-----|---|----------------------|

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42747 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/29/2024 | | | RunNo: 89470 | | |
| Client ID: MBLKS | Batch ID: 42747 | | | | | Analysis Date: 2/5/2024 | | | SeqNo: 1867980 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 59.5 | | 100.0 | | 59.5 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42747 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/29/2024 | | | RunNo: 89471 | | |
| Client ID: MBLKS | Batch ID: 42747 | | | | | Analysis Date: 2/5/2024 | | | SeqNo: 1867987 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 74.8 | | 100.0 | | 74.8 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42747 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/29/2024 | | | RunNo: 89470 | | |
| Client ID: LCSS | Batch ID: 42747 | | | | | Analysis Date: 2/5/2024 | | | SeqNo: 1867981 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 108 | 20.0 | 250.0 | 0 | 43.1 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 69.3 | 10.0 | 125.0 | 0 | 55.5 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 72.5 | 10.0 | 125.0 | 0 | 58.0 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 72.3 | 10.0 | 125.0 | 0 | 57.8 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 89.7 | 10.0 | 125.0 | 0 | 71.8 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 59.3 | | 100.0 | | 59.3 | 50 | 150 | | | | |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: LCS-42747 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867988 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 160 | 20.0 | 250.0 | 0 | 63.9 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 109 | 10.0 | 125.0 | 0 | 86.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 114 | 10.0 | 125.0 | 0 | 91.3 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 117 | 10.0 | 125.0 | 0 | 93.5 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 101 | 10.0 | 125.0 | 0 | 80.7 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 81.6 | | 100.0 | | 81.6 | 50 | 150 | | | | |

| Sample ID: 2401469-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867983 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 192 | 23.0 | 287.3 | 27.53 | 57.4 | 6.01 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 201 | 11.5 | 143.6 | 80.37 | 84.1 | 11.6 | 127 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 145 | 11.5 | 143.6 | 54.78 | 63.0 | 24.7 | 129 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 91.7 | 11.5 | 143.6 | 10.07 | 56.9 | 25.5 | 132 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 100 | 11.5 | 143.6 | 0 | 70.0 | 21.4 | 138 | | | | |
| Surr: 1-Chlorooctadecane | 61.9 | | 114.9 | | 53.9 | 50 | 150 | | | | |

| Sample ID: 2401469-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867990 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 219 | 23.0 | 287.3 | 23.77 | 68.1 | 12.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 281 | 11.5 | 143.6 | 91.80 | 132 | 26.3 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C16) | 253 | 11.5 | 143.6 | 101.7 | 105 | 23.3 | 139 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 121 | 11.5 | 143.6 | 20.82 | 69.6 | 32.2 | 131 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 108 | 11.5 | 143.6 | 0 | 75.4 | 35.8 | 139 | | | | |
| Surr: o-Terphenyl | 85.3 | | 114.9 | | 74.2 | 50 | 150 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: 2401469-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867984 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 200 | 23.1 | 288.1 | 27.53 | 60.0 | 6.01 | 130 | 192.4 | 4.12 | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | 247 | 11.5 | 144.1 | 80.37 | 115 | 11.6 | 127 | 201.1 | 20.3 | 30 | |
| Aliphatic Hydrocarbon (C12-C16) | 180 | 11.5 | 144.1 | 54.78 | 86.9 | 24.7 | 129 | 145.3 | 21.3 | 30 | |
| Aliphatic Hydrocarbon (C16-C21) | 104 | 11.5 | 144.1 | 10.07 | 65.4 | 25.5 | 132 | 91.74 | 12.8 | 30 | |
| Aliphatic Hydrocarbon (C21-C34) | 116 | 11.5 | 144.1 | 0 | 80.5 | 21.4 | 138 | 100.5 | 14.3 | 30 | |
| Surr: 1-Chlorooctadecane | 70.7 | | 115.3 | | 61.3 | 50 | 150 | | 0 | | |

| Sample ID: 2401469-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867991 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 205 | 23.1 | 288.1 | 23.77 | 62.9 | 12.6 | 130 | 219.4 | 6.77 | 30 | |
| Aromatic Hydrocarbon (C10-C12) | 286 | 11.5 | 144.1 | 91.80 | 135 | 26.3 | 130 | 281.2 | 1.69 | 30 | S |
| Aromatic Hydrocarbon (C12-C16) | 265 | 11.5 | 144.1 | 101.7 | 113 | 23.3 | 139 | 252.9 | 4.60 | 30 | |
| Aromatic Hydrocarbon (C16-C21) | 127 | 11.5 | 144.1 | 20.82 | 73.8 | 32.2 | 131 | 120.8 | 5.17 | 30 | |
| Aromatic Hydrocarbon (C21-C34) | 110 | 11.5 | 144.1 | 0 | 76.5 | 35.8 | 139 | 108.3 | 1.79 | 30 | |
| Surr: o-Terphenyl | 84.3 | | 115.3 | | 73.1 | 50 | 150 | | 0 | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVP

| Sample ID: LCS-42713 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865040 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 20.5 | 2.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 12.9 | 2.50 | 10.00 | 0 | 129 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 20.3 | 2.50 | 10.00 | 0 | 203 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C10-C12) | 13.1 | 2.50 | 10.00 | 0 | 131 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C8-C10) | 34.9 | 2.50 | 50.00 | 0 | 69.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C10-C12) | 6.27 | 2.50 | 10.00 | 0 | 62.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 6.22 | 2.50 | 10.00 | 0 | 62.2 | 70 | 130 | | | | S |
| Surr: 2,5-dibromotoluene | 2.02 | | 2.500 | | 81.0 | 60 | 140 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. Samples will be qualified with a *.

| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865036 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.75 | | 2.500 | | 70.0 | 60 | 140 | | | | |

| Sample ID: 2401315-001BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C10-C12) | 2.21 | 0.997 | | 0 | 0 | | | 2.132 | 3.80 | 25 | Q+ |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: 2401315-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | Prep Date: 1/24/2024 | | | RunNo: 89314 | | | |
|-----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 1.16 | 0.997 | | 0 | 0 | | | 0.8308 | 32.7 | 25 | BQ- |
| Aromatic Hydrocarbon (C10-C12) | 1.17 | 0.997 | | 0 | 0 | | | 1.288 | 9.87 | 25 | Q- |
| Aromatic Hydrocarbon (C12-C13) | 1.35 | 0.997 | | 0 | 0 | | | 1.219 | 10.2 | 25 | Q- |
| Surr: 2,5-dibromotoluene | 0.657 | | 0.9971 | | 65.9 | 60 | 140 | | 0 | 0 | |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: LCS-42713 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: LCSS | Batch ID: 42713 | Analysis Date: 1/25/2024 | | | | | | SeqNo: 1865012 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 17.9 | 2.50 | 20.00 | 0 | 89.3 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 2.50 | 10.00 | 0 | 112 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 12.0 | 2.50 | 10.00 | 0 | 120 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.7 | 2.50 | 10.00 | 0 | 107 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 52.3 | 2.50 | 50.00 | 0 | 105 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.2 | 2.50 | 10.00 | 0 | 102 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.60 | | 2.500 | | 104 | 60 | 140 | | | | |

| Sample ID: MB-42713 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Client ID: MBLKS | Batch ID: 42713 | | | | | Analysis Date: 1/26/2024 | | | | SeqNo: 1864974 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | | |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89309 | | | |
| Client ID: MBLKS | | Batch ID: 42713 | | | | Analysis Date: 1/26/2024 | | SeqNo: 1864974 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 2,5-dibromotoluene | 1.83 | | 2.500 | | 73.3 | 60 | 140 | | | | |

| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|-----------------------------------|------------------------|-------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-21D-S7 | Batch ID: 42713 | | | | | Analysis Date: 1/26/2024 | | | SeqNo: 1864986 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | 24.9 | 1.40 | | 0 | 0 | | | 22.74 | 9.25 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | 33.5 | 1.40 | | 0 | 0 | | | 33.57 | 0.230 | 25 | |
| Aromatic Hydrocarbon (C8-C10) | 44.7 | 1.40 | | 0 | 0 | | | 44.93 | 0.405 | 25 | |
| Aromatic Hydrocarbon (C12-C13) | 19.2 | 1.40 | | 0 | 0 | | | 18.77 | 2.48 | 25 | |
| Surr: 2,5-dibromotoluene | 1.49 | | 1.401 | | 106 | 60 | 140 | | 0 | 0 | |

| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|-----------------------------------|------------------------|-------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-21D-S7 | Batch ID: 42713 | | | | | Analysis Date: 1/31/2024 | | | SeqNo: 1868193 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C10-C12) | 49.0 | 14.0 | | 0 | 0 | | | 47.58 | 2.92 | 25 | DH |
| Aromatic Hydrocarbon (C10-C12) | 29.2 | 14.0 | | 0 | 0 | | | 29.04 | 0.665 | 25 | DH |
| Surr: 2,5-dibromotoluene | 10.0 | | 14.01 | | 71.4 | 60 | 140 | | 0 | 0 | DH |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401469
 Date Received: 1/24/2024 4:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
 MeOH ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.7 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401419

January 30, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 1/23/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401419

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401419-001 | MW-21D-S2 | 01/16/2024 10:50 AM | 01/23/2024 1:30 PM |
| 2401419-002 | MW-21D-S4 | 01/16/2024 10:30 AM | 01/23/2024 1:30 PM |
| 2401419-003 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/23/2024 1:30 PM |
| 2401419-004 | MW-21D-S2 | 01/19/2024 3:05 PM | 01/23/2024 1:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401419-001 **Collection Date:** 1/16/2024 10:50:00 AM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|-----------------|----|----------------------|
| Total Organic Carbon by EPA 9060 | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 1:05:00 PM |

Lab ID: 2401419-002 **Collection Date:** 1/16/2024 10:30:00 AM
Client Sample ID: MW-21D-S4 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|-----------------|----|----------------------|
| Total Organic Carbon by EPA 9060 | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 2:32:00 PM |

Lab ID: 2401419-003 **Collection Date:** 1/16/2024 2:30:00 PM
Client Sample ID: MW-21D-S7 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|-----------------|----|----------------------|
| Total Organic Carbon by EPA 9060 | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:15:00 PM |

Lab ID: 2401419-004 **Collection Date:** 1/19/2024 3:05:00 PM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|-----------------|----|----------------------|
| Total Organic Carbon by EPA 9060 | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:32:00 PM |

Work Order: 2401419
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-42741 | SampType: MBLK | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MBLKS | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864259 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-42741 | SampType: LCS | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: LCSS | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864260 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.07 | 0.150 | 1.000 | 0 | 107 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001ADUP | SampType: DUP | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864262 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001AMS | SampType: MS | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864263 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001AMSD | SampType: MSD | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864264 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.04 | 0.150 | 1.000 | 0 | 104 | 75 | 125 | 1.106 | 6.63 | 20 | | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401419
 Date Received: 1/23/2024 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 16, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 6, 2024 from the Whidbey Marine 0204475-001, F&BI 402067 project. There are 33 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0216R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402067 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402067 -01 | MW-1S |
| 402067 -02 | MW-3S |
| 402067 -03 | MW-22D |
| 402067 -04 | MW-23D |

Samples MW-22D and MW-3D were sent to Fremont Analytical for TOC, nitrate, nitrite, sulfate, chloride, ammonia, alkalinity, sulfide, and dissolved gases analyses. The report is enclosed.

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-22D 402067-03 | 220 | 99 |
| MW-23D 402067-04 1/20 | 62,000 | 103 |
| Method Blank 04-202 MB | <100 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-1S 402067-01 | <1 | <1 | <1 | <3 | <100 | 77 |
| MW-3S 402067-02 | <1 | <1 | <1 | <3 | <100 | 86 |
| Method Blank 04-202 MB | <1 | <1 | <1 | <3 | <100 | 81 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152) |
|-----------------------------------|--|---|---|
| MW-1S 402067-01 1/1.2 | <60 | <300 | 98 |
| MW-3S 402067-02 1/1.2 | <60 | <300 | 104 |
| MW-22D 402067-03 1/1.2 | <60 | <300 | 99 |
| MW-23D 402067-04 1/1.2 | 2,900 x | <300 | 103 |
| Method Blank 04-325 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-1S 402067-01 1/1.2 | 70 x | <300 | 98 |
| MW-3S 402067-02 1/1.2 | 63 x | <300 | 102 |
| MW-22D 402067-03 1/1.2 | 130 x | <300 | 101 |
| MW-23D 402067-04 1/1.2 | 7,000 x | <300 | 102 |
| Method Blank 04-325 MB | <50 | <250 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-03.160 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 2.56 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 x50 |
| Date Analyzed: | 02/09/24 | Data File: | 402067-03 x50.077 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 1,010 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-04.161 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 11.4 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 x50 |
| Date Analyzed: | 02/09/24 | Data File: | 402067-04 x50.078 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,000 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-101 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-101 mb.051 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-03.162 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 2.07 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-04.163 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 11.6 |
| Lead | 1.59 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-99 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-99 mb.049 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-1S | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-01 |
| Date Analyzed: | 02/07/24 | Data File: | 020719.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 105 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-02 |
| Date Analyzed: | 02/07/24 | Data File: | 020720.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 106 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/07/24 | Data File: | 020721.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 106 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | 8.9 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 26 |
| Hexane | <5 | o-Xylene | 11 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 1.6 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 4.3 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 9.7 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 2.2 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-04 1/200 |
| Date Analyzed: | 02/07/24 | Data File: | 020722.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <200 | 1,3-Dichloropropane | <200 |
| Chloromethane | <2,000 | Tetrachloroethene | <200 |
| Vinyl chloride | <4 | Dibromochloromethane | <100 |
| Bromomethane | <1,000 | 1,2-Dibromoethane (EDB) | <2 |
| Chloroethane | <200 | Chlorobenzene | <200 |
| Trichlorofluoromethane | <200 ca | Ethylbenzene | 1,300 |
| Acetone | <10,000 ca | 1,1,1,2-Tetrachloroethane | <200 |
| 1,1-Dichloroethene | <200 | m,p-Xylene | 4,400 |
| Hexane | <1,000 | o-Xylene | 1,000 |
| Methylene chloride | <1,000 | Styrene | <200 |
| Methyl t-butyl ether (MTBE) | <200 | Isopropylbenzene | <200 |
| trans-1,2-Dichloroethene | <200 | Bromoform | <1,000 |
| 1,1-Dichloroethane | <200 | n-Propylbenzene | <200 |
| 2,2-Dichloropropane | <200 | Bromobenzene | <200 |
| cis-1,2-Dichloroethene | <200 | 1,3,5-Trimethylbenzene | 220 |
| Chloroform | <200 | 1,1,2,2-Tetrachloroethane | <40 |
| 2-Butanone (MEK) | <4,000 | 1,2,3-Trichloropropane | <200 |
| 1,2-Dichloroethane (EDC) | <40 | 2-Chlorotoluene | <200 |
| 1,1,1-Trichloroethane | <200 | 4-Chlorotoluene | <200 |
| 1,1-Dichloropropene | <200 | tert-Butylbenzene | <200 |
| Carbon tetrachloride | <100 | 1,2,4-Trimethylbenzene | 580 |
| Benzene | 11 j | sec-Butylbenzene | <200 |
| Trichloroethene | <100 | p-Isopropyltoluene | <200 |
| 1,2-Dichloropropane | <200 | 1,3-Dichlorobenzene | <200 |
| Bromodichloromethane | <100 | 1,4-Dichlorobenzene | <200 |
| Dibromomethane | <200 | 1,2-Dichlorobenzene | <200 |
| 4-Methyl-2-pentanone | <2,000 | 1,2-Dibromo-3-chloropropane | <2,000 |
| cis-1,3-Dichloropropene | <80 | 1,2,4-Trichlorobenzene | <200 |
| Toluene | 15,000 | Hexachlorobutadiene | <100 |
| trans-1,3-Dichloropropene | <80 | Naphthalene | 380 |
| 1,1,2-Trichloroethane | <100 | 1,2,3-Trichlorobenzene | <200 |
| 2-Hexanone | <2,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 04-0284 mb |
| Date Analyzed: | 02/07/24 | Data File: | 020709.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.025 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 020816.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 11 | 173 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 65 ca | 10 | 140 |
| Terphenyl-d14 | 74 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 1.4 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 020817.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 98 | 11 | 173 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 95 ca | 10 | 140 |
| Terphenyl-d14 | 80 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 160 ve |
| 2-Methylnaphthalene | 72 ve |
| 1-Methylnaphthalene | 32 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.10 |
| Fluorene | 0.18 |
| Phenanthrene | 0.18 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 1/100 |
| Date Analyzed: | 02/09/24 | Data File: | 020916.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 d | 15 | 144 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 280 d | 10 | 142 |
| Terphenyl-d14 | 80 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 230 |
| 2-Methylnaphthalene | 65 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 04-0335 mb |
| Date Analyzed: | 02/08/24 | Data File: | 020811a.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 | 15 | 144 |
| 2-Fluorobiphenyl | 65 | 25 | 128 |
| 2,4,6-Tribromophenol | 75 | 10 | 142 |
| Terphenyl-d14 | 91 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/09/24

Date Analyzed: 02/12/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-22D 402067-03 | 82 |
| MW-23D 402067-04 | 46 |
| Method Blank I4-0105 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402067-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 96 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 88 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 82 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 80 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 402100-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 22.1 | 83 b | 81 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | <1 | 86 | 87 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 2.76 | 92 | 95 | 75-125 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 93 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 100 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 13.4 | 95 b | 97 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | 1.15 | 81 | 78 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 95 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402068-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 99 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 103 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 99 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 94 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 79 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 44 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 91 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 92 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 84 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 91 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 87 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 96 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 88 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 101 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 87 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | 3.6 | 95 b | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 105 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 93 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 86 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 108 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 114 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 105 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 93 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 105 | 104 | 46-206 | 1 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 103 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 99 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 93 | 102 | 50-197 | 9 |
| Chloroethane | ug/L (ppb) | 10 | 97 | 96 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 87 | 75 | 51-159 | 15 |
| Acetone | ug/L (ppb) | 50 | 51 | 52 | 10-140 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 90 | 90 | 64-140 | 0 |
| Hexane | ug/L (ppb) | 10 | 100 | 102 | 54-136 | 2 |
| Methylene chloride | ug/L (ppb) | 10 | 97 | 93 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 97 | 96 | 64-148 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Chloroform | ug/L (ppb) | 10 | 87 | 90 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 75 | 89 | 47-112 | 17 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 89 | 88 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 102 | 101 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 90 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| Bromodichloromethane | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromomethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 103 | 105 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 96 | 69-131 | 4 |
| Toluene | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 91 | 90 | 45-138 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 110 | 103 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 101 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| Chlorobenzene | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| m,p-Xylene | ug/L (ppb) | 20 | 96 | 96 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 92 | 91 | 70-130 | 1 |
| Styrene | ug/L (ppb) | 10 | 91 | 88 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| Bromoform | ug/L (ppb) | 10 | 119 | 111 | 69-138 | 7 |
| n-Propylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 126 | 122 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 118 | 114 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 119 | 117 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 99 | 105 | 70-130 | 6 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 111 | 70-130 | 10 |
| Naphthalene | ug/L (ppb) | 10 | 113 | 119 | 70-130 | 5 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 106 | 114 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 66 | 64 | 50-104 | 3 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 71 | 69 | 52-113 | 3 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 69 | 67 | 51-115 | 3 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 78 | 60-114 | 3 |
| Acenaphthene | ug/L (ppb) | 5 | 77 | 76 | 57-110 | 1 |
| Fluorene | ug/L (ppb) | 5 | 84 | 84 | 61-115 | 0 |
| Phenanthrene | ug/L (ppb) | 5 | 84 | 86 | 63-113 | 2 |
| Anthracene | ug/L (ppb) | 5 | 86 | 89 | 65-117 | 3 |
| Fluoranthene | ug/L (ppb) | 5 | 92 | 95 | 68-121 | 3 |
| Pyrene | ug/L (ppb) | 5 | 88 | 90 | 62-133 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 89 | 94 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 5 | 91 | 95 | 66-129 | 4 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 95 | 101 | 66-129 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 88 | 92 | 55-144 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 92 | 99 | 58-139 | 7 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 103 | 105 | 62-136 | 2 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 99 | 102 | 55-146 | 3 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 97 | 100 | 58-137 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 84 | 98 | 35-146 | 15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402067

SAMPLE CHAIN OF CUSTODY

02/06/24

vwh/KS/531

Report To H. Good, V. PehlivanCompany HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

SAMPLERS (signature) [Signature]

PROJECT NAME

Whitty Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

| | | | | | | | | | | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------|---------------------------|--------------|--------------|-------------|-----------|----------|----------|---------------|--|--------------------|---------------|---|-----------------------------------|-----|-----|----------------|-------------------|--|--|-------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | Geochemical NWTPH-HCD | VOCs EPA 8260 | PAHs EPA 8270 | CIVOLs PCBs EPA 8082 | NWTPH-Dx w/ Silica gel cleanup | TOC | TSS | Tot, Dis As+Pb | | | | |
| Mh-15 | 01A-G | 7/5/24 | 1430 | water | 7 | X | X | X | | | | X | X | | | | Geochemical | | | |
| Mh-35 | 02A-G | | 1200 | | 7 | X | X | X | | | | X | X | | | | peramethys | | | |
| Mh-22D | 03A-D | | 1540 | | 17 | X | X | | X | X | | | X | X | | | nitrate, nitrite | | | |
| Mh-23D | 04A-D 04A-D | ✓ | 1210 | ✓ | 16 | X | X | | X | X | | | X | X | X | X | ammonia, chloride | | | |
| | | | | | | | | | | | | | | | | | sulfate, alkyl | | | |
| | | | | | | | | | | | | | | | | | sulfide, MEG | | | |
| | | | | | | | | | | | | | | | | | dissolved metals | | | |
| | | | | | | | | | | | | | | | | | Manganese | | | |
| | | | | | | | | | | | | | | | | | include Dx-0 | | | |
| | | | | | | | | | | | | | | | | | Chromatograms | | | |

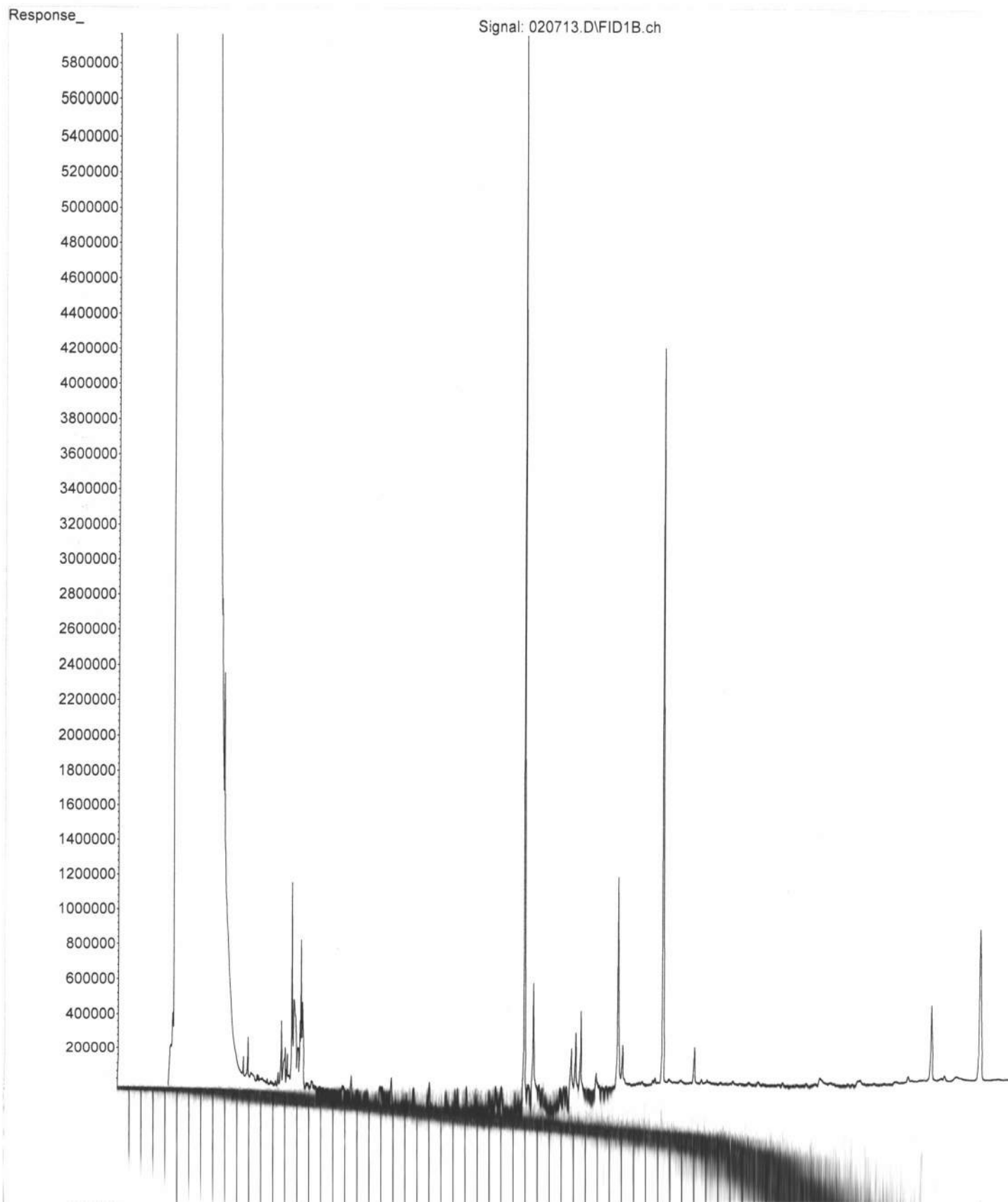
Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | | PRINT NAME | | COMPANY | | DATE | TIME |
|-------------------------------------|--|-----------------------|--|---------|--|--------|-------|
| <u>[Signature]</u> | | Andrew Nakshum | | HA | | 7/6/24 | 1220 |
| Received by: <u>[Signature]</u> | | HONG NGUYEN | | FBI | | 8/6/24 | 12:20 |
| Relinquished by: <u>[Signature]</u> | | | | | | | |
| Received by: | | Samples received at 4 | | | | °C | |

NOTE
for Hg
2/18/24
ME

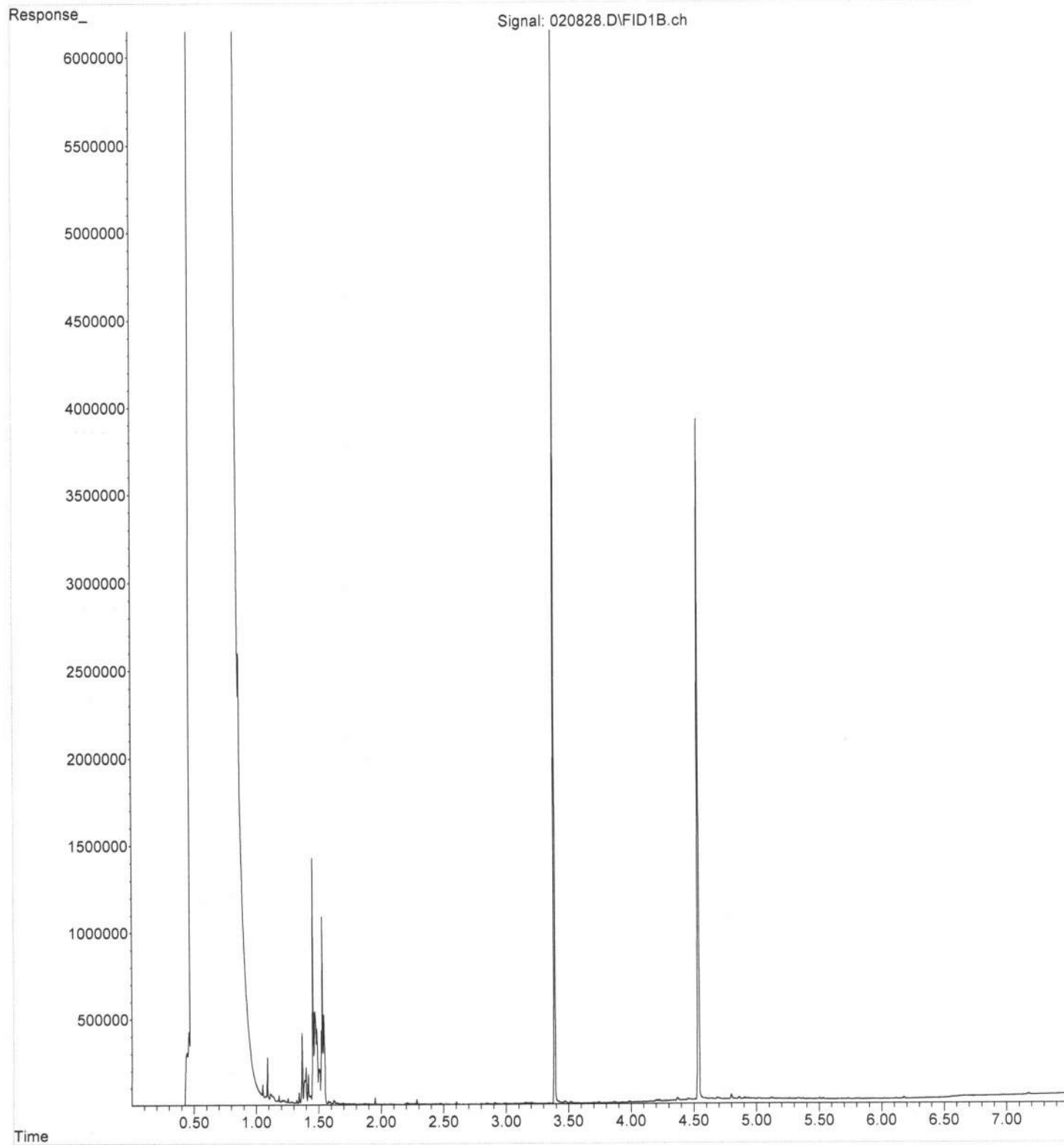
File :P:\Proc_GC14\02-07-24\020713.D
Operator : TL
Acquired : 07 Feb 2024 03:29 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01
Misc Info :
Vial Number: 13

ERR



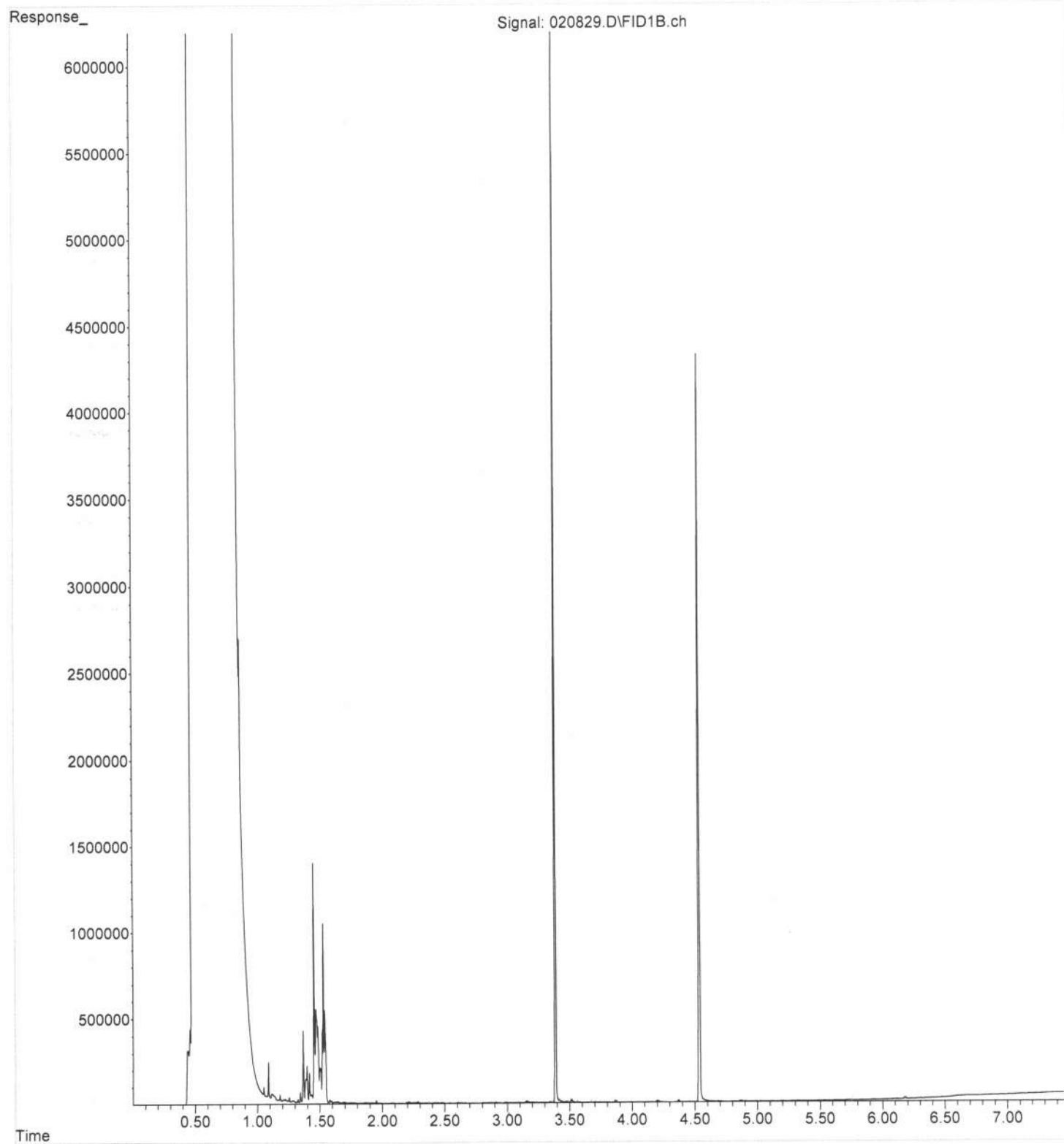
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Operator : TL
Acquired : 08 Feb 2024 05:08 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01 sg
Misc Info :
Vial Number: 23

ERR



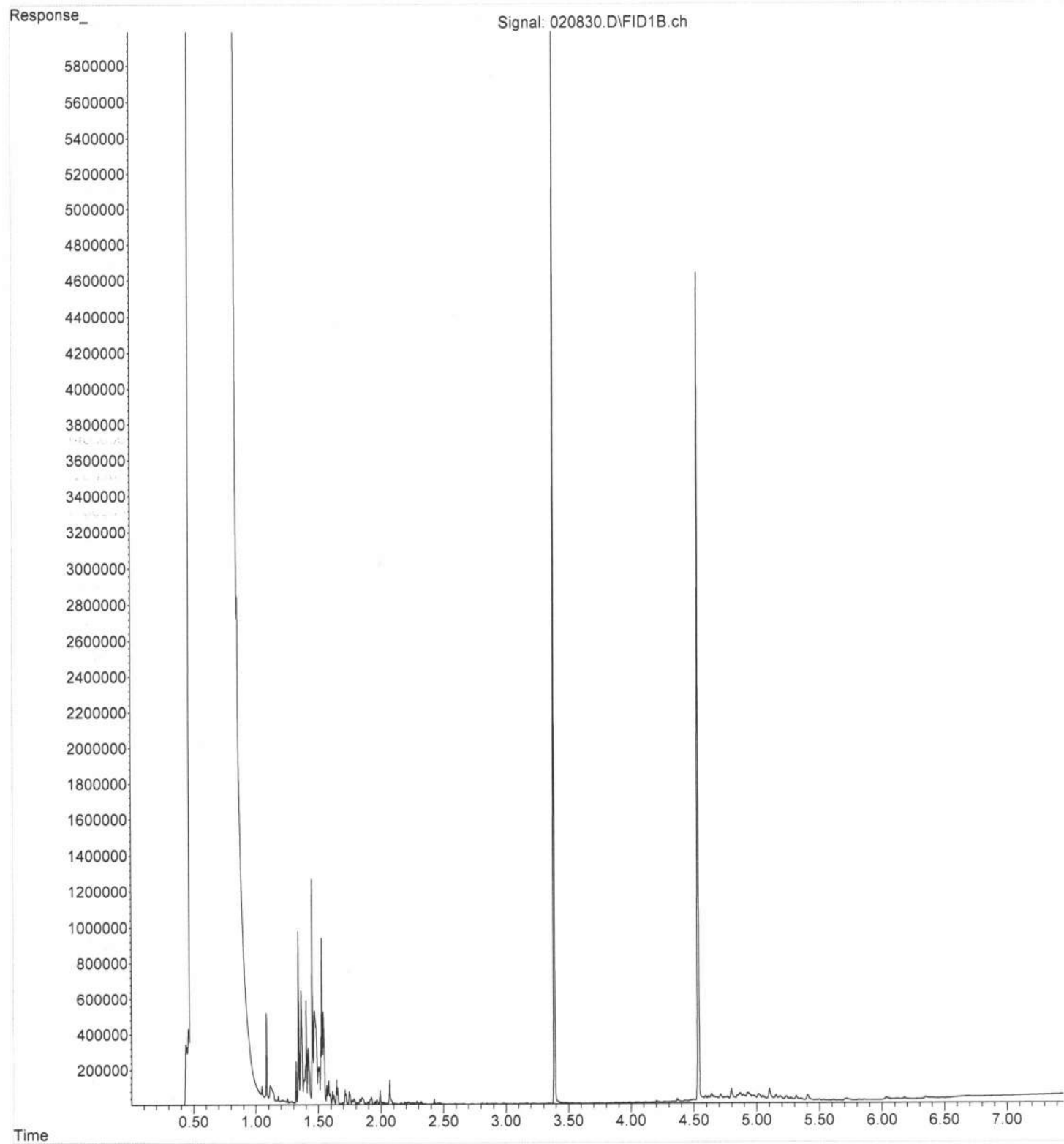
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Operator : TL
Acquired : 08 Feb 2024 05:20 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-02 sg
Misc Info :
Vial Number: 24

ERR



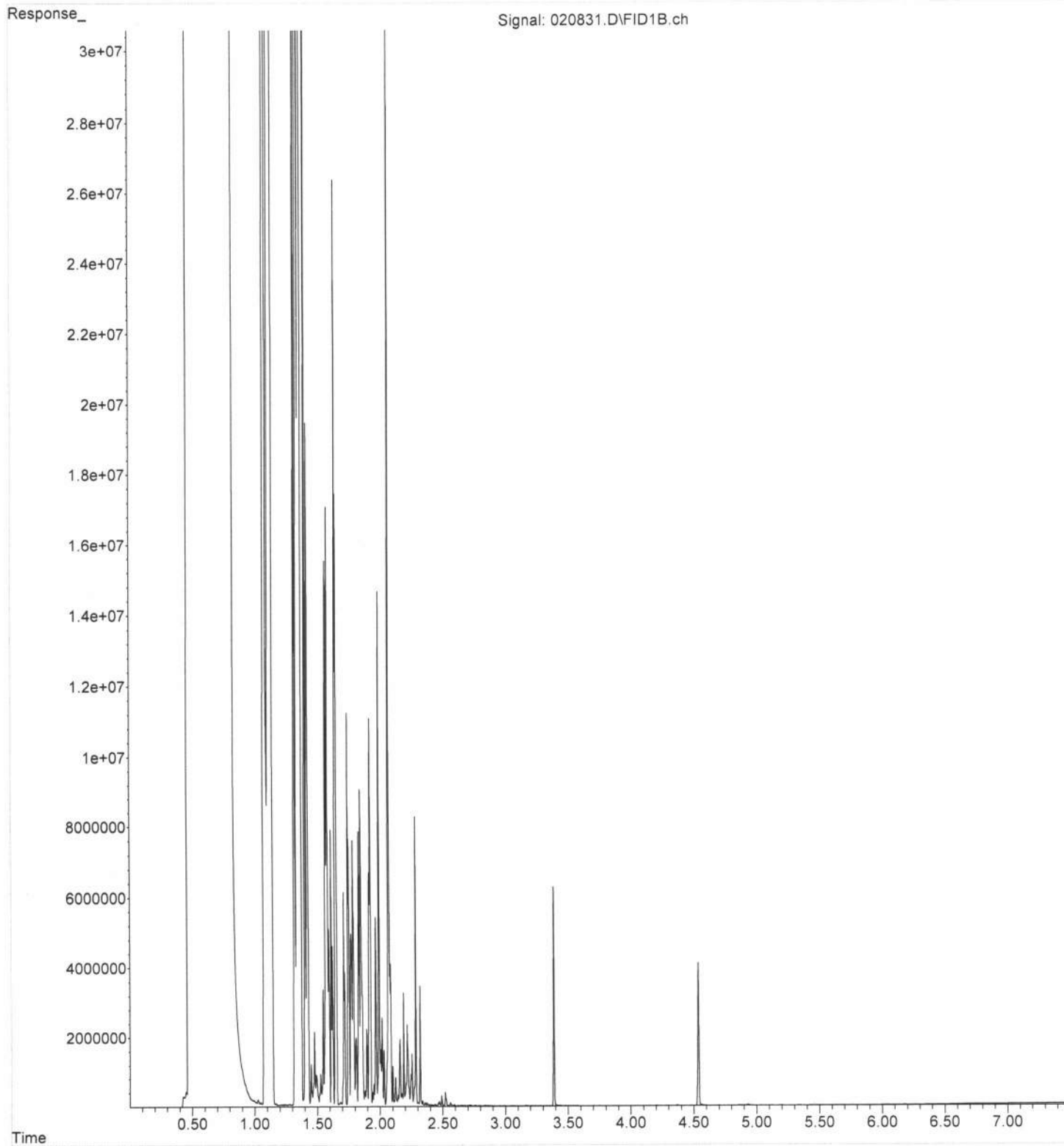
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Operator : TL
Acquired : 08 Feb 2024 05:32 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-03 sg
Misc Info :
Vial Number: 25

ERR



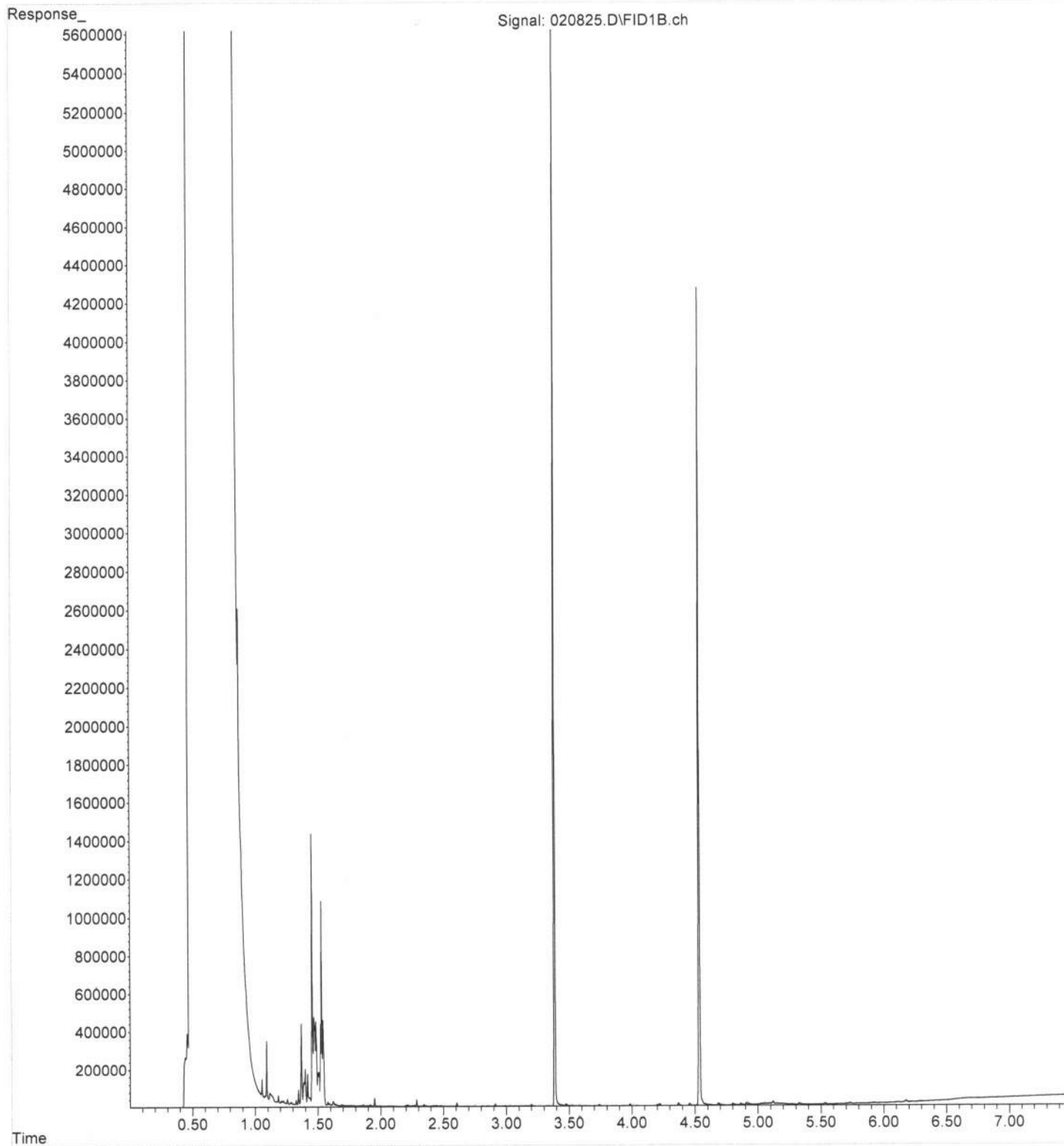
File :P:\Proc_GC14\02-08-24\020831.D
Operator : TL
Acquired : 08 Feb 2024 05:43 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-04 sg
Misc Info :
Vial Number: 26

ERR



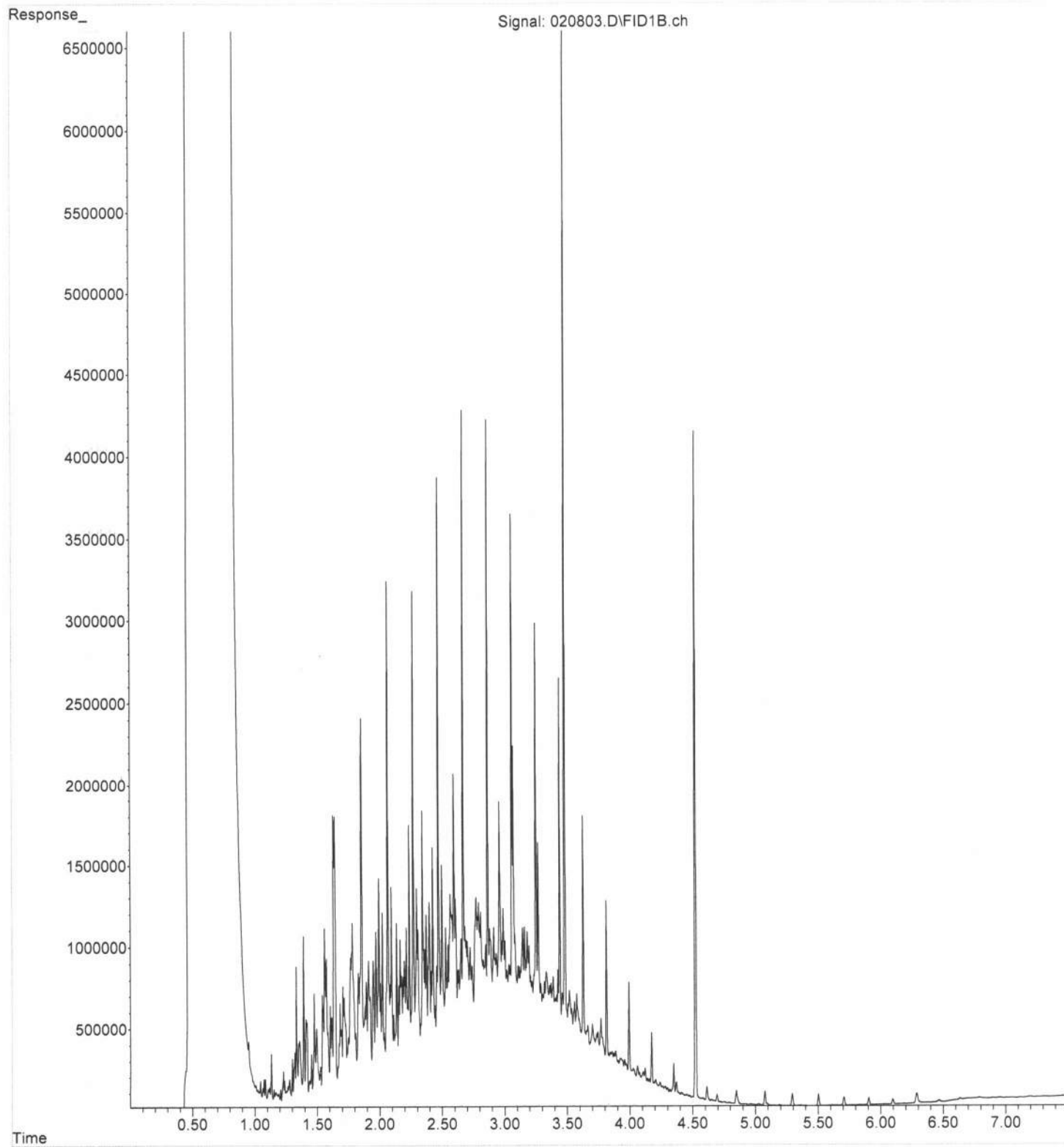
File :P:\Proc_GC14\02-08-24\020825.D
Operator : TL
Acquired : 08 Feb 2024 04:33 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-325 mb sg
Misc Info :
Vial Number: 20

ERR



File :P:\Proc_GC14\02-08-24\020803.D
Operator : TL
Acquired : 08 Feb 2024 09:00 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402067
Work Order Number: 2402085

February 13, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 2/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402067
Work Order: 2402085

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402085-001 | MW-22D | 02/05/2024 3:40 PM | 02/06/2024 3:40 PM |
| 2402085-002 | MW-23D | 02/05/2024 12:40 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 402067

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-001

Collection Date: 2/5/2024 3:40:00 PM

Client Sample ID: MW-22D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89591 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42841 | | Analyst: SLL |
| Chloride | 6.32 | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Sulfate | 7.03 | 3.00 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.48 | 0.700 | | mg/L | 1 | 2/8/2024 9:12:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89571 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 147 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:42:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-002

Collection Date: 2/5/2024 12:40:00 PM

Client Sample ID: MW-23D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R89591 Analyst: LB

| | | | | | | |
|---------|--------|---------|--|------|---|----------------------|
| Methane | 0.0599 | 0.00675 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 1:02:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 42841 Analyst: SLL

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Chloride | 27.1 | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Sulfate | ND | 3.00 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R89535 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|---------------------|
| Total Organic Carbon | 11.3 | 0.700 | | mg/L | 1 | 2/8/2024 9:45:00 PM |
|----------------------|------|-------|--|------|---|---------------------|

Total Alkalinity by SM 2320B

Batch ID: R89571 Analyst: SS

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 244 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 42892 Analyst: FG

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:47:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R89559 Analyst: FG

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0672 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89571 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MBLKW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869827 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | ND | 2.50 | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89571 | | SampType: LCS | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: LCSW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869828 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 108 | 2.50 | 100.0 | 0 | 108 | 86.2 | 126.2 | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MW-22D | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869830 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 153 | 2.50 | | | | | 146.5 | 4.54 | 20 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: MBLKW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869931 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: LCSW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869932 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869934 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869935 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869936 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42841 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/6/2024 | | | | RunNo: 89464 | | |
| Client ID: MBLKW | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | | SeqNo: 1867805 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-42841 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: LCSW | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867806 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.736 | 0.120 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Nitrite (as N) | 0.716 | 0.120 | 0.7500 | 0 | 95.5 | 90 | 110 | | | | |
| Nitrate (as N) | 0.744 | 0.100 | 0.7500 | 0 | 99.2 | 90 | 110 | | | | |
| Sulfate | 3.57 | 0.600 | 3.750 | 0 | 95.1 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2401588-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | SeqNo: 1867808 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|------|----|--|
| Chloride | 0.211 | 0.120 | | | | | | 0.2080 | 1.43 | 20 | |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.162 | 0.100 | | | | | | 0.1600 | 1.24 | 20 | |
| Sulfate | ND | 0.600 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|-------|----|-----|--|--|--|----|
| Chloride | 31.5 | 0.120 | 0.7500 | 0.2080 | 4,180 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.735 | 0.120 | 0.7500 | 0 | 98.0 | 80 | 120 | | | | |
| Nitrate (as N) | 1.06 | 0.100 | 0.7500 | 0.1600 | 120 | 80 | 120 | | | | S |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2401588-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 2/6/2024 | | RunNo: 89464 | | | |
| Client ID: BATCH | | Batch ID: 42841 | | | | Analysis Date: 2/6/2024 | | SeqNo: 1867809 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 9.73 | 0.600 | 3.750 | 0.2550 | 253 | 80 | 120 | | | | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2401588-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
|-----------------------------------|------------------------|--------------------------------|-----------|-------------|-------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | | SeqNo: 1867810 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 31.4 | 0.120 | 0.7500 | 0.2080 | 4,160 | 80 | 120 | 31.53 | 0.346 | 20 | ES |
| Nitrite (as N) | 0.727 | 0.120 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7350 | 1.09 | 20 | |
| Nitrate (as N) | 1.05 | 0.100 | 0.7500 | 0.1600 | 119 | 80 | 120 | 1.061 | 0.947 | 20 | |
| Sulfate | 9.59 | 0.600 | 3.750 | 0.2550 | 249 | 80 | 120 | 9.733 | 1.48 | 20 | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R89559 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: MBLKW | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869569 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R89559 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: LCSW | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869570 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.221 | 0.0500 | 0.2000 | 0 | 111 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2402085-002CDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869626 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.0614 | 0.0500 | | | | | | 0.06724 | 9.01 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2402085-002CMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869627 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.279 | 0.0500 | 0.2000 | 0.06724 | 106 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2402085-002CMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869628 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.292 | 0.0500 | 0.2000 | 0.06724 | 112 | 80 | 120 | 0.2793 | 4.46 | 20 | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869640 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402099-009CMS | | SampType: MS | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-R89535 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869134 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R89535 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: LCSW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869135 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 5.05 | 0.700 | 5.000 | 0 | 101 | 90 | 116 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|------------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402046-001ADUP | SampType: DUP | Units: mg/L-dry | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869138 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 22.0 | 2.24 | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869139 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.5 | 0.700 | 5.000 | 7.032 | 88.9 | 41.1 | 150 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869140 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.8 | 0.700 | 5.000 | 7.032 | 94.5 | 41.1 | 150 | 11.48 | 2.44 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: CCB-D | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/9/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | | | | | SeqNo: 1869461 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402100-001CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/9/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869477 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|--|--|--|--|--|---|---|----|--|
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | |
|----------------------|------|-------|--|--|--|--|--|---|---|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402100-001CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/10/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | | Batch ID: R89535 | | | Analysis Date: 2/10/2024 | | | | | SeqNo: 1869438 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|------|-----|--|--|--|--|
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | |
|----------------------|------|-------|-------|---|-----|------|-----|--|--|--|--|

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89591 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: LCSW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870309 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Methane | 964 | 0.00675 | 1,000 | 0 | 96.4 | 73.6 | 124 | | | | | |
| Ethene | 962 | 0.0146 | 1,000 | 0 | 96.2 | 76.3 | 122 | | | | | |
| Ethane | 1,010 | 0.0151 | 1,000 | 0 | 101 | 76.1 | 123 | | | | | |

| | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89591 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: MBLKW | | Batch ID: R89591 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870308 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402099-001DREP | | SampType: REP | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: BATCH | | Batch ID: R89591 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870287 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | 3.33 | 0.00675 | | | | | | 3.177 | 4.57 | 30 | E |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402085
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
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office@friedmanandbruya.com
www.friedmanandbruya.com

February 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 8, 2024 from the Whidbey Marine 0204475, F&BI 402114 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 8, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475, F&BI 402114 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402114 -01 | MW-10D-W |
| 402114 -02 | MW-11D-W |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-10D-W 402114-01 | <1 | <1 | <1 | <3 | <100 | 87 |
| MW-11D-W 402114-02 | <1 | <1 | <1 | <3 | <100 | 87 |
| Method Blank 04-206 MB | <1 | <1 | <1 | <3 | <100 | 85 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/16/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 41-152) |
| MW-10D-W | <60 | <300 | 97 |
| 402114-01 1/1.2 | | | |
| MW-11D-W | <50 | <250 | 102 |
| 402114-02 | | | |
| Method Blank | <50 | <250 | 114 |
| 04-336 MB2 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-10D-W | <60 | <300 | 98 |
| 402114-01 1/1.2 | | | |
| MW-11D-W | 71 x | <250 | 99 |
| 402114-02 | | | |
| Method Blank | <50 | <250 | 108 |
| 04-336 MB2 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402114-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Benzene | ug/L (ppb) | 50 | 92 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 92 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 88 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 98 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 84 | 92 | 65-151 | 9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 80 | 92 | 65-151 | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

~~Report To~~ Heather Good

Company Halley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyabrids.com

02/08/24 Fa2/vw1

Page # 1 of 1

SAMPLERS (signature) 

| PROJECT NAME | PO # |
|--------------|------|
|--------------|------|

Whidbey Marine 0204475

| REMARKS | INVOICE TO |
|---------|------------|
|---------|------------|

| Project specific RLS? - Yes / No |
|----------------------------------|
| |

TURNAROUND TIME
☒ Standard turnaround
☐ RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____

Default: Dispose after 30 days

SAMPLE DISPOSAL

☐ Archive samples☐ Other_

Default: Dispose after 30 days

| | | | | | | | ANALYSES REQUESTED | | | | | | | | |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------------|--------------------|---------------|------------|---------------|---------------|---------------|--|--|--------------------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | | | Notes |
| MU-10D-W | G1A-G | 2/7/24 | 1245 | W | 7 | X | X | X | | | | | | | For both samples: DX w/L & w/O sq |
| MU-11D-W | O2 ↓ | 4 | 1125 | W | 7 | X | X | X | | | | | | | Chromatograms for TPH analyses |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| | | | | | | Samples received at 2 °C | | | | | | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE

PRINT NAME _____

COMPANY

DATE

TIME

Relinquished by: [Signature]

Each Stephens

$$H \rightarrow A$$

| | | |
|---|---|---|
| 2 | 8 | 2 |
| 4 | 2 | 2 |

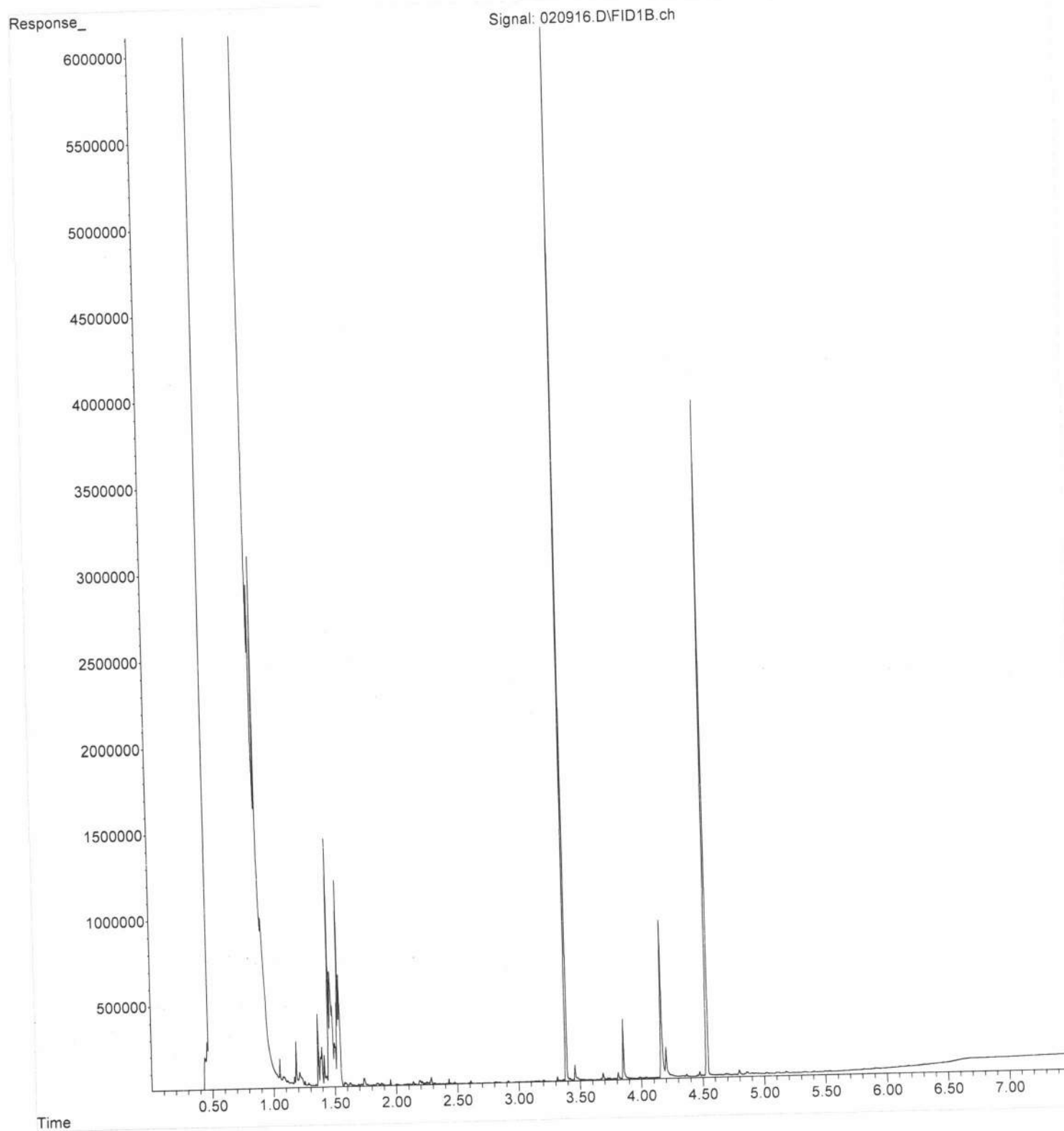
0211

Received by:

| |
|--|
| |
|--|

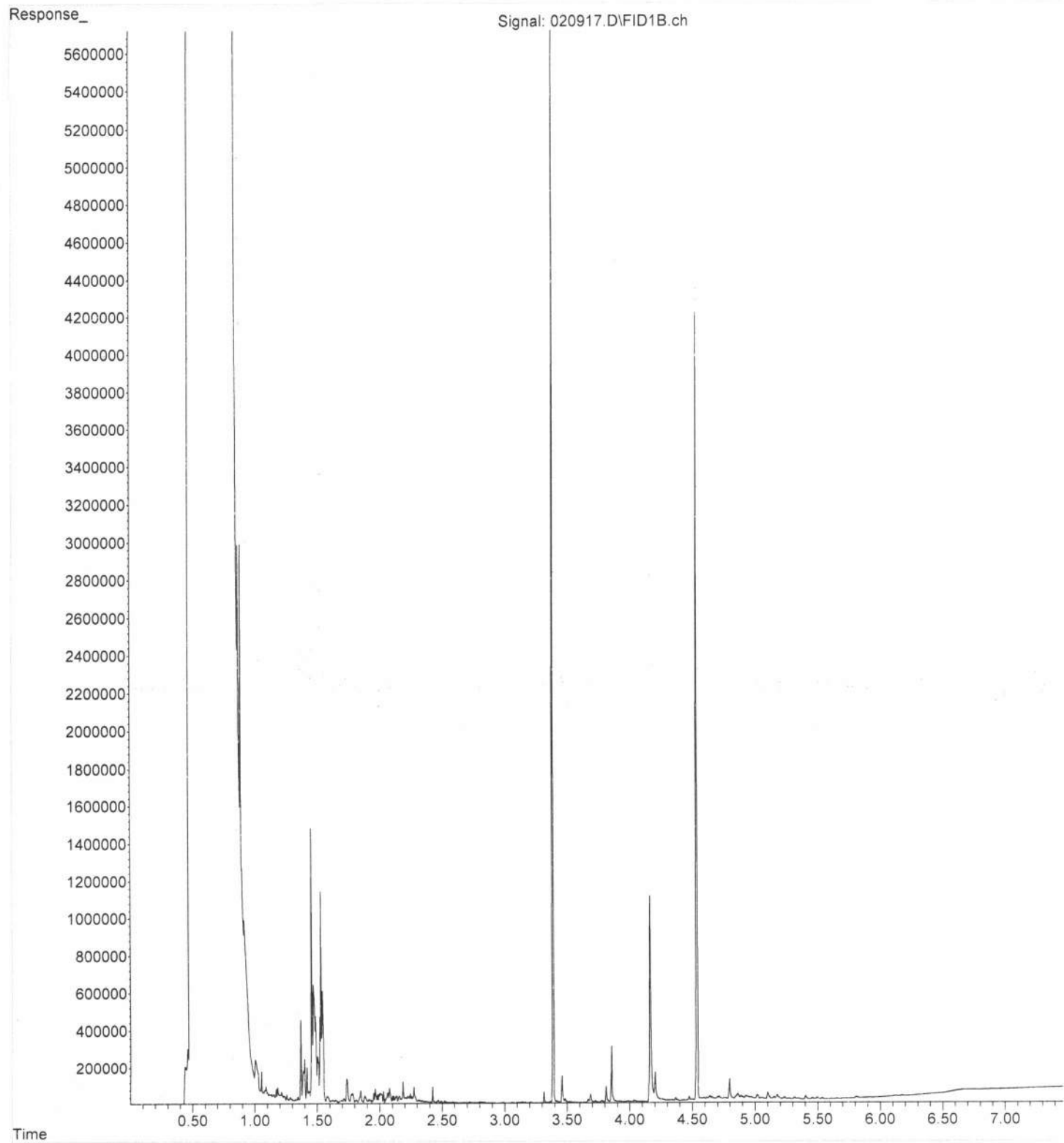
File :P:\Proc_GC14\02-09-24\020916.D
Operator : TL
Acquired : 09 Feb 2024 11:27 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402114-01
Misc Info :
Vial Number: 16

ERR



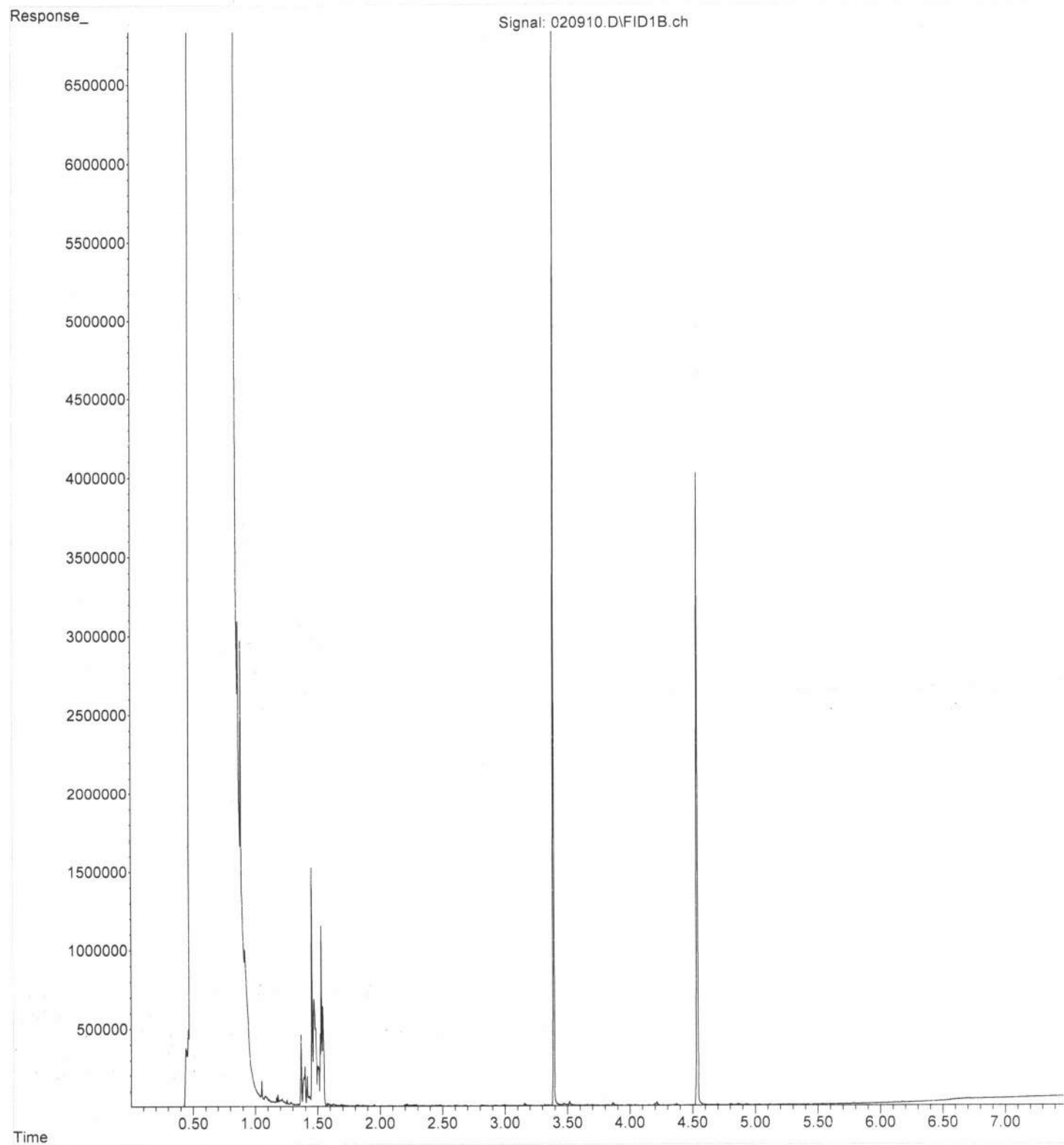
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Operator : TL
Acquired : 09 Feb 2024 11:38 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402114-02
Misc Info :
Vial Number: 17

ERR



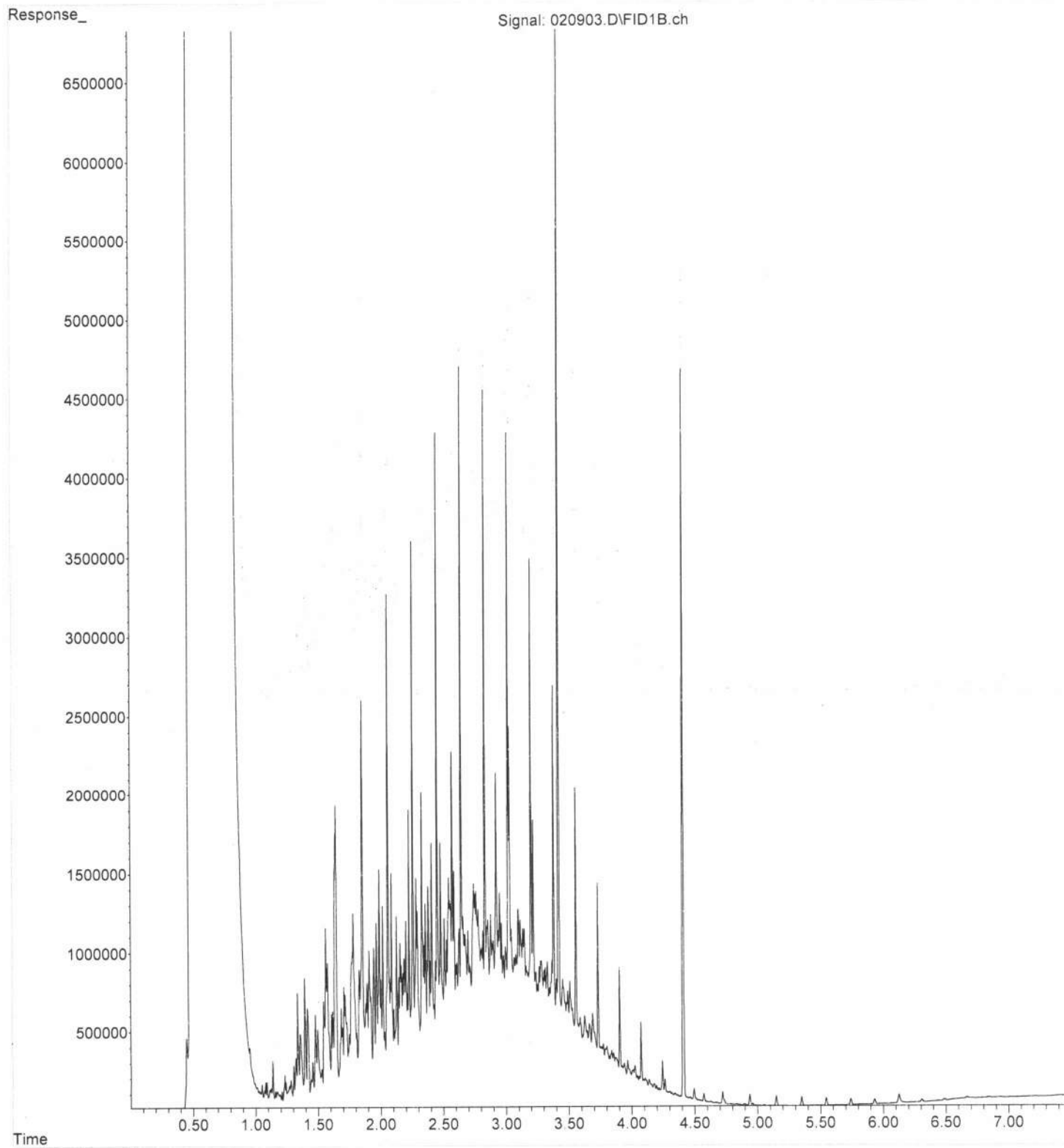
File :P:\Proc_GC14\02-09-24\020910.D
Operator : TL
Acquired : 09 Feb 2024 10:17 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-336 mb2
Misc Info :
Vial Number: 10

ERR



File : P:\Proc_GC14\02-09-24\020903.D
Operator : TL
Acquired : 09 Feb 2024 08:55 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 20, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 7, 2024 from the Whidbey Marine 0204475, F&BI 402092 project. There are 39 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0220R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 7, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475, F&BI 402092 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402092 -01 | MW-19D-W |
| 402092 -02 | MW-20D-W |
| 402092 -03 | MW-21D-W |
| 402092 -04 | DUP-01 |
| 402092 -05 | Trip Blank |

The samples were sent to Fremont Analytical for TOC, nitrate, nitrite, sulfate, chloride, ammonia, alkalinity, sulfide, and dissolved gases analyses. The report is enclosed.

The dissolved metals samples were filtered at Friedman and Bruya. The data were flagged accordingly.

The 8260D calibration standard did not meet the acceptance criteria for acetone and 2-butanone. The data were flagged accordingly.

The 8270E calibration standard associated with sample MW-19D-W did not meet the acceptance criteria for 2,4,6-tribromophenol surrogate. The data were flagged accordingly.

The NWTPH-Dx diesel calibration standard exceeded the acceptance criteria for the silica gel analysis of samples MW-21D-W and DUP-01. No material was detected in that range, therefore this did not represent an out of control condition, and the data were qualified with a "k" qualifier.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-19D-W 402092-01 | <100 | 115 |
| MW-20D-W 402092-02 | <100 | 116 |
| MW-21D-W 402092-03 | 6,600 | 135 |
| DUP-01 402092-04 | 6,100 | 132 |
| Method Blank 04-203 MB | <100 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/16/24 and 02/19/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|----------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) (Limit 41-152) |
| MW-19D-W 402092-01 | <50 | <250 | 95 |
| MW-20D-W 402092-02 | <50 | <250 | 99 |
| MW-21D-W 402092-03 | 1,400 x | <250 k | 103 |
| DUP-01 402092-04 | 1,500 x | <250 k | 95 |
| Method Blank 04-325 MB2 | <50 | <250 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-19D-W 402092-01 | <50 | <250 | 94 |
| MW-20D-W 402092-02 | 110 x | <250 | 94 |
| MW-21D-W 402092-03 | 1,600 x | <250 | 103 |
| DUP-01 402092-04 | 1,600 x | <250 | 90 |
| Method Blank 04-325 MB2 | <50 | <250 | 112 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-01.071 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 10.9 |
| Lead | <1 |
| Manganese | 73.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-02.138 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 1.61 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 x100 |
| Date Analyzed: | 02/13/24 | Data File: | 402092-02 x100.048 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 1,180 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-03.140 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 1.51 |
| Lead | 2.53 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 x10 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-03 x10.139 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 189 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | DUP-01 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-04.142 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 1.30 |
| Lead | 2.21 |
| Manganese | 147 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|------------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-100 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-100 mb.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/08/24 | Data File: | 402092-01.065 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 13.4 |
| Lead | 1.15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-02.198 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 4.46 |
| Lead | 1.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-03.199 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 3.41 |
| Lead | 5.10 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-04.200 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 2.48 |
| Lead | 3.58 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-99 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-99 mb.049 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/09/24 | Data File: | 020911.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 020912.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 93 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 3.3 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 2.1 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | 0.37 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-03 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020913.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | 54 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 91 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 360 |
| Hexane | <50 | o-Xylene | 140 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | <10 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 28 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 120 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 ca | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 350 |
| Benzene | <0.35 j | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 94 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-04 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020914.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 104 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | 55 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 84 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 340 |
| Hexane | <50 | o-Xylene | 130 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | <10 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 27 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 120 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 ca | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 340 |
| Benzene | <0.35 j | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 98 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 04-0311 mb |
| Date Analyzed: | 02/09/24 | Data File: | 020909.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 78 | 126 |
| Toluene-d8 | 93 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/08/24 | Data File: | 020818.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 86 | 11 | 173 |
| 2-Fluorobiphenyl | 76 | 25 | 128 |
| 2,4,6-Tribromophenol | 78 ca | 10 | 140 |
| Terphenyl-d14 | 77 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | 0.028 |
| Pyrene | 0.020 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 020906.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 15 | 144 |
| 2-Fluorobiphenyl | 80 | 25 | 128 |
| 2,4,6-Tribromophenol | 86 | 10 | 142 |
| Terphenyl-d14 | 92 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.58 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/09/24 | Data File: | 020907.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 15 | 144 |
| 2-Fluorobiphenyl | 70 | 25 | 128 |
| 2,4,6-Tribromophenol | 87 | 10 | 142 |
| Terphenyl-d14 | 83 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 37 ve |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 9.1 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.040 |
| Fluorene | 0.061 |
| Phenanthrene | 0.042 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020917.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 d | 15 | 144 |
| 2-Fluorobiphenyl | 68 d | 25 | 128 |
| 2,4,6-Tribromophenol | 89 d | 10 | 142 |
| Terphenyl-d14 | 79 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 39 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/09/24 | Data File: | 020910.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 15 | 144 |
| 2-Fluorobiphenyl | 69 | 25 | 128 |
| 2,4,6-Tribromophenol | 90 | 10 | 142 |
| Terphenyl-d14 | 87 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 39 ve |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 9.5 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.040 |
| Fluorene | 0.063 |
| Phenanthrene | 0.040 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020918.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 d | 15 | 144 |
| 2-Fluorobiphenyl | 67 d | 25 | 128 |
| 2,4,6-Tribromophenol | 93 d | 10 | 142 |
| Terphenyl-d14 | 82 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 42 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 04-0335 mb |
| Date Analyzed: | 02/08/24 | Data File: | 020811a.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 | 15 | 144 |
| 2-Fluorobiphenyl | 65 | 25 | 128 |
| 2,4,6-Tribromophenol | 75 | 10 | 142 |
| Terphenyl-d14 | 91 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/15/24

Date Analyzed: 02/16/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-19D-W 402092-01 | 53 |
| MW-20D-W 402092-02 | 360 |
| MW-21D-W 402092-03 | 310 |
| DUP-01 402092-04 | 160 |
| Method Blank 14-0120 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 402099-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 10.8 | 102 b | 98 b | 75-125 | 4 b |
| Lead | ug/L (ppb) | 10 | <1 | 86 | 87 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 76.4 | 114 b | 106 b | 75-125 | 7 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 86 | 80-120 |
| Lead | ug/L (ppb) | 10 | 89 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 88 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 13.4 | 95 b | 97 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | 1.15 | 81 | 78 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 95 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 93 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 107 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 102 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 101 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 83 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 58 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 110 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 102 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 112 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 100 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 91 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 99 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 104 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 104 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 95 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 106 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 98 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 98 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 104 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 96 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 106 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 111 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 101 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 120 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 123 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 117 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 112 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 112 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 120 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 118 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 89 | 84 | 46-206 | 6 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 99 | 59-132 | 6 |
| Vinyl chloride | ug/L (ppb) | 10 | 98 | 92 | 64-142 | 6 |
| Bromomethane | ug/L (ppb) | 10 | 90 | 88 | 50-197 | 2 |
| Chloroethane | ug/L (ppb) | 10 | 96 | 90 | 70-130 | 6 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 80 | 84 | 51-159 | 5 |
| Acetone | ug/L (ppb) | 50 | 58 | 52 | 10-140 | 11 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 92 | 87 | 64-140 | 6 |
| Hexane | ug/L (ppb) | 10 | 105 | 100 | 54-136 | 5 |
| Methylene chloride | ug/L (ppb) | 10 | 96 | 90 | 43-134 | 6 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 98 | 93 | 70-130 | 5 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 95 | 89 | 70-130 | 7 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 97 | 92 | 70-130 | 5 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 108 | 97 | 64-148 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 94 | 70-130 | 2 |
| Chloroform | ug/L (ppb) | 10 | 93 | 86 | 70-130 | 8 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 90 | 89 | 47-112 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 95 | 93 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 90 | 86 | 70-130 | 5 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 93 | 89 | 70-130 | 4 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 103 | 98 | 70-130 | 5 |
| Benzene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 91 | 90 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 92 | 93 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| Dibromomethane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 106 | 105 | 68-130 | 1 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 95 | 69-131 | 2 |
| Toluene | ug/L (ppb) | 10 | 97 | 93 | 70-130 | 4 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 94 | 90 | 70-130 | 4 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 92 | 86 | 45-138 | 7 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| Tetrachloroethene | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromochloromethane | ug/L (ppb) | 10 | 102 | 99 | 60-148 | 3 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | 97 | 95 | 70-130 | 2 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 91 | 70-130 | 5 |
| m,p-Xylene | ug/L (ppb) | 20 | 97 | 92 | 70-130 | 5 |
| o-Xylene | ug/L (ppb) | 10 | 93 | 87 | 70-130 | 7 |
| Styrene | ug/L (ppb) | 10 | 93 | 89 | 70-130 | 4 |
| Isopropylbenzene | ug/L (ppb) | 10 | 92 | 85 | 70-130 | 8 |
| Bromoform | ug/L (ppb) | 10 | 115 | 109 | 69-138 | 5 |
| n-Propylbenzene | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 102 | 96 | 70-130 | 6 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 100 | 94 | 70-130 | 6 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 118 | 113 | 70-130 | 4 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 114 | 109 | 70-130 | 4 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 100 | 95 | 70-130 | 5 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 102 | 98 | 70-130 | 4 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 103 | 98 | 70-130 | 5 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 104 | 98 | 70-130 | 6 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 96 | 70-130 | 7 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 96 | 70-130 | 5 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 100 | 96 | 70-130 | 4 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 113 | 108 | 70-130 | 5 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 105 | 96 | 70-130 | 9 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 109 | 98 | 70-130 | 11 |
| Naphthalene | ug/L (ppb) | 10 | 117 | 107 | 70-130 | 9 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 110 | 99 | 70-130 | 11 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 66 | 64 | 50-104 | 3 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 71 | 69 | 52-113 | 3 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 69 | 67 | 51-115 | 3 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 78 | 60-114 | 3 |
| Acenaphthene | ug/L (ppb) | 5 | 77 | 76 | 57-110 | 1 |
| Fluorene | ug/L (ppb) | 5 | 84 | 84 | 61-115 | 0 |
| Phenanthrene | ug/L (ppb) | 5 | 84 | 86 | 63-113 | 2 |
| Anthracene | ug/L (ppb) | 5 | 86 | 89 | 65-117 | 3 |
| Fluoranthene | ug/L (ppb) | 5 | 92 | 95 | 68-121 | 3 |
| Pyrene | ug/L (ppb) | 5 | 88 | 90 | 62-133 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 89 | 94 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 5 | 91 | 95 | 66-129 | 4 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 95 | 101 | 66-129 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 88 | 92 | 55-144 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 92 | 99 | 58-139 | 7 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 103 | 105 | 62-136 | 2 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 99 | 102 | 55-146 | 3 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 97 | 100 | 58-137 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 112 | 112 | 35-146 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

F3/K4/VW2

PO#

0204475

INVOICE TO

Project specific KLS: - Yes / No

27c 2/21/17

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround

☐ RUSH

Rush charges authorized by _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other _____

Default: Dispose after 30 _____

Default: Dispose after 30 days

[illegible]

TIME

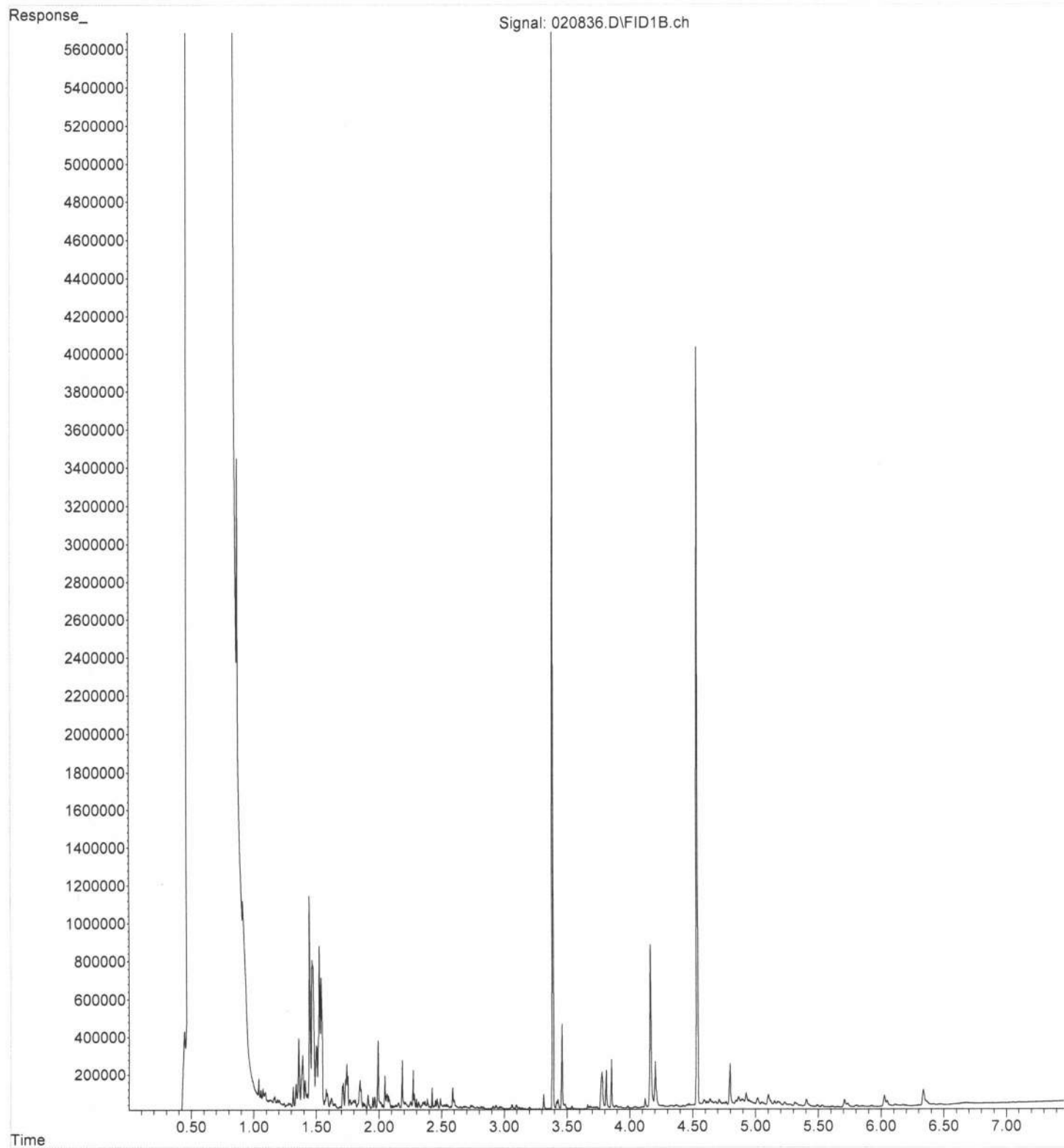
1105

1997

10

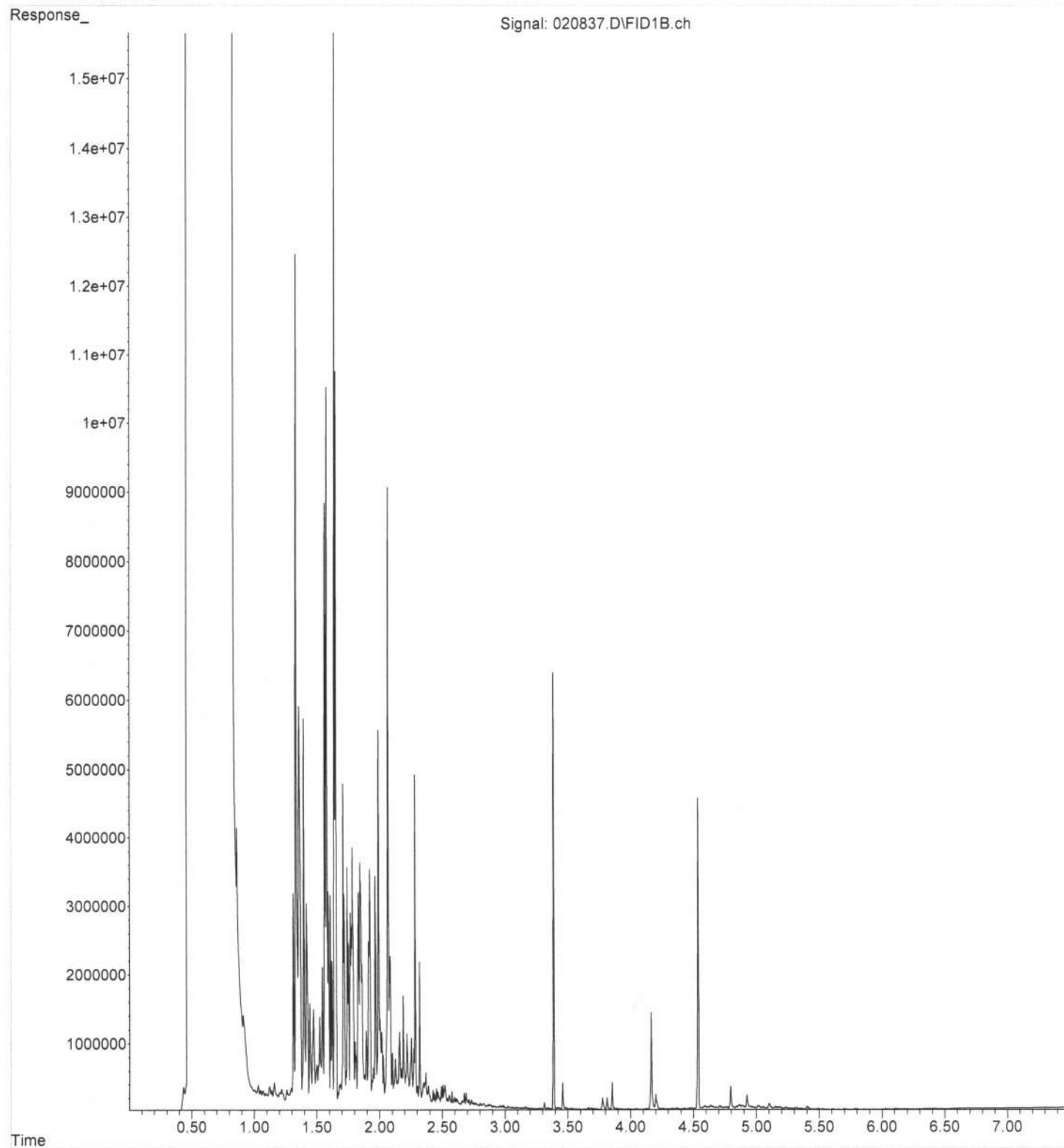
File :P:\Proc_GC14\02-08-24\020836.D
Operator : TL
Acquired : 08 Feb 2024 07:26 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-02
Misc Info :
Vial Number: 29

ERR



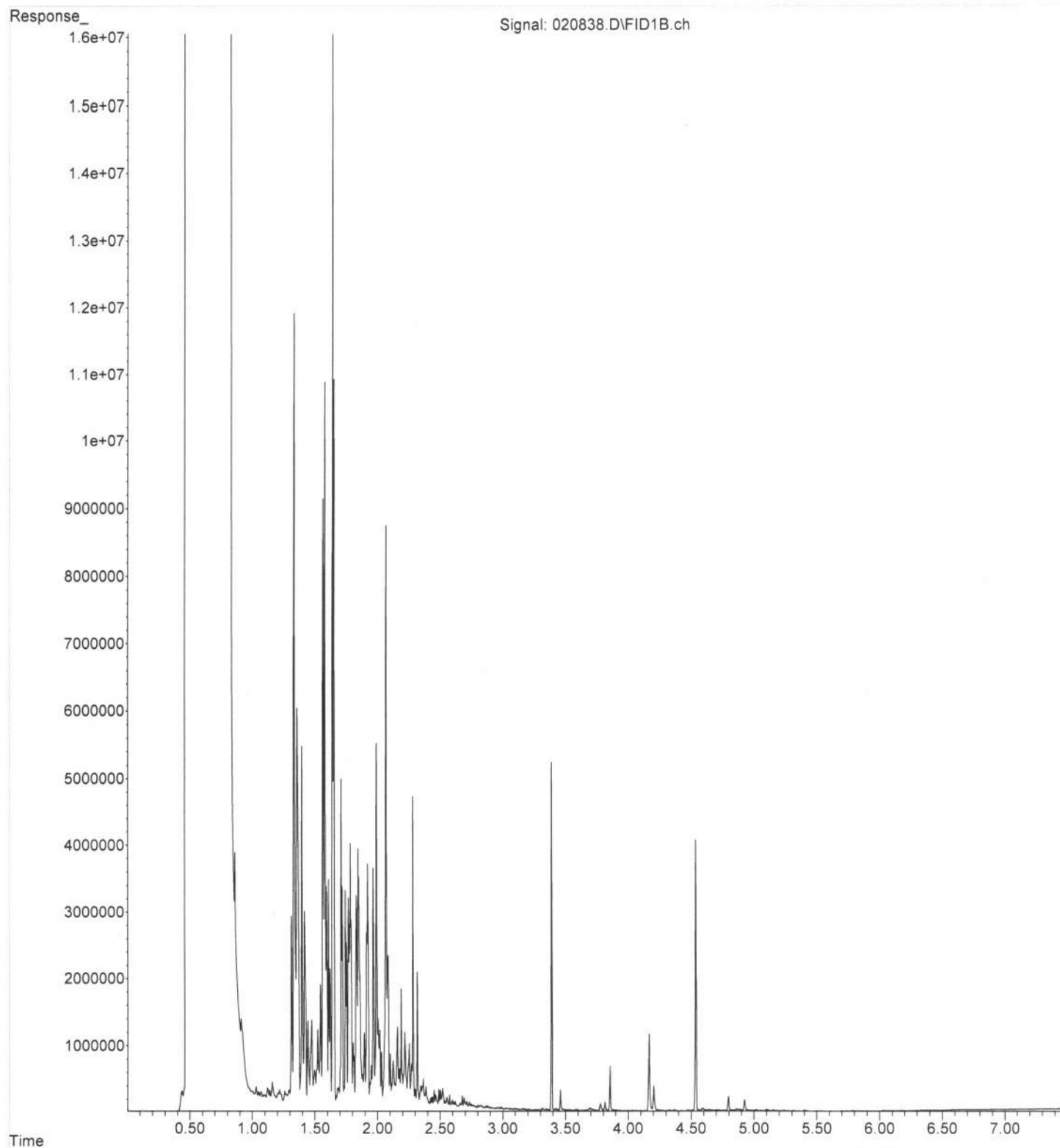
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Instrument : GC14
Sample Name: 402092-03
Misc Info :
Vial Number: 30

ERR



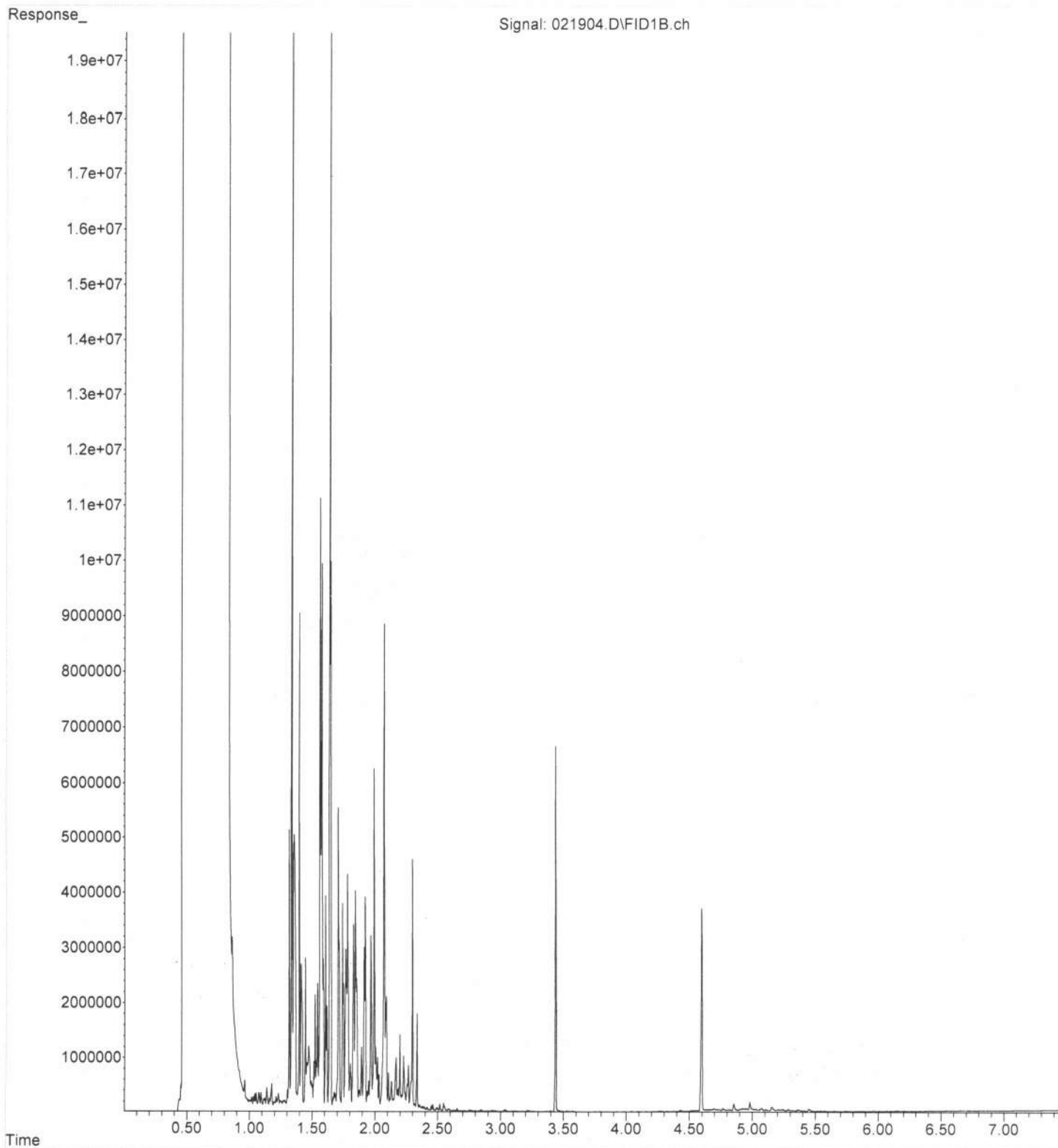
File :P:\Proc_GC14\02-08-24\020838.D
Operator : TL
Acquired : 08 Feb 2024 07:50 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-04
Misc Info :
Vial Number: 31

ERR



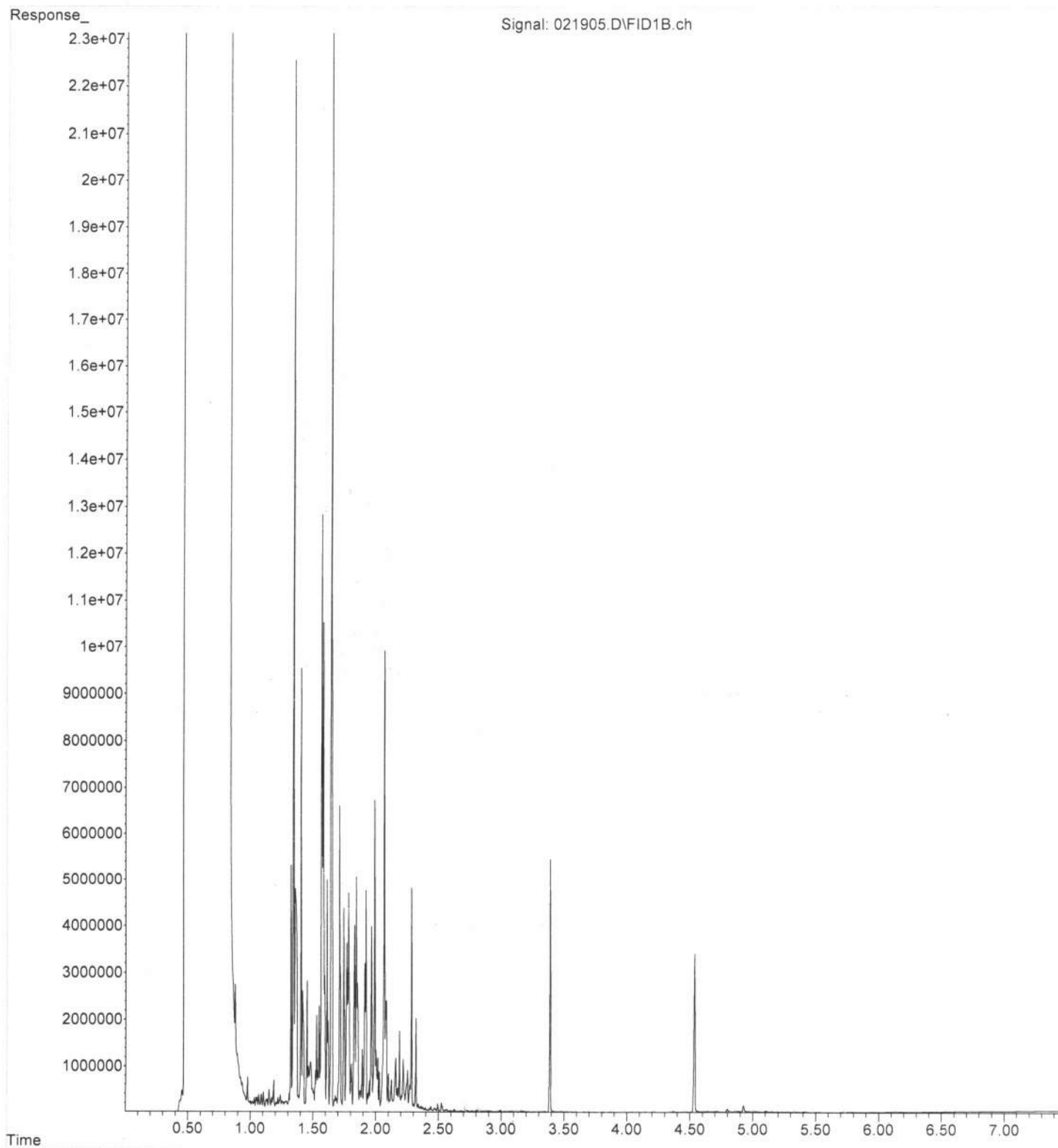
File :P:\Proc_GC14\02-19-24\021904.D
Operator : TL
Acquired : 19 Feb 2024 08:57 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-03 sg rr
Misc Info :
Vial Number: 6

ERR



File :P:\Proc_GC14\02-19-24\021905.D
Operator : TL
Acquired : 19 Feb 2024 09:08 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-04 sg rr
Misc Info :
Vial Number: 7

ERR



Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402092
Work Order Number: 2402100

February 14, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 2/7/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Bames
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

CLIENT: Friedman & Bruya
Project: 402092
Work Order: 2402100

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2402100-001 | MW-19D-W | 02/06/2024 10:25 AM | 02/07/2024 12:10 PM |
| 2402100-002 | MW-20D-W | 02/06/2024 2:25 PM | 02/07/2024 12:10 PM |
| 2402100-003 | MW-21D-W | 02/06/2024 12:45 PM | 02/07/2024 12:10 PM |
| 2402100-004 | DUP-01 | 02/06/2024 1:00 PM | 02/07/2024 12:10 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 402092

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-001

Collection Date: 2/6/2024 10:25:00 AM

Client Sample ID: MW-19D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | 0.0595 | 0.00675 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 34.8 | 2.40 | D | mg/L | 20 | 2/8/2024 2:44:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 8:43:00 PM |
| Nitrate (as N) | 38.9 | 2.00 | DH | mg/L | 20 | 2/8/2024 2:44:00 PM |
| Nitrate (as N) | 34.7 | 0.500 | DE | mg/L | 5 | 2/7/2024 8:43:00 PM |
| Sulfate | 27.6 | 3.00 | D | mg/L | 5 | 2/7/2024 8:43:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.80 | 0.700 | | mg/L | 1 | 2/9/2024 11:35:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 118 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:52:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.205 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

Work Order: **2402100**
Date Reported: **2/14/2024**

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-002

Collection Date: 2/6/2024 2:25:00 PM

Client Sample ID: MW-20D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | 0.0142 | 0.00675 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 7.94 | 0.600 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Nitrate (as N) | 1.30 | 0.500 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Sulfate | 9.69 | 3.00 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.62 | 0.700 | | mg/L | 1 | 2/10/2024 12:39:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 170 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:07:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.247 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-003

Collection Date: 2/6/2024 12:45:00 PM

Client Sample ID: MW-21D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 52.4 | 2.40 | D | mg/L | 20 | 2/8/2024 3:07:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| Nitrate (as N) | 1.37 | 0.500 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| Sulfate | 7.48 | 3.00 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 2.14 | 0.700 | | mg/L | 1 | 2/10/2024 1:12:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 135 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:12:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.207 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-004

Collection Date: 2/6/2024 1:00:00 PM

Client Sample ID: DUP-01

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 51.9 | 2.40 | D | mg/L | 20 | 2/8/2024 3:30:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| Nitrate (as N) | 1.37 | 0.500 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| Sulfate | 7.46 | 3.00 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 2.23 | 0.700 | | mg/L | 1 | 2/10/2024 1:43:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 138 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:34:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.151 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89603 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | |
| Client ID: MBLKW | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870587 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | ND | 2.50 | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89603 | | SampType: LCS | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | |
| Client ID: LCSW | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870588 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 103 | 2.50 | 100.0 | 0 | 103 | 86.2 | 126.2 | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402100-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | |
| Client ID: MW-19D-W | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870590 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 112 | 2.50 | | | | | 117.9 | 5.26 | 20 | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MBLKW | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869931 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | | |

| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: LCSW | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869932 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | | |

| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869934 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | | |

| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869935 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | | |

| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869936 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42857 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/7/2024 | | | | RunNo: 89527 | | |
| Client ID: MBLKW | Batch ID: 42857 | Analysis Date: 2/7/2024 | | | | | | | SeqNo: 1868986 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-42857 | SampType: LCS | Units: mg/L | | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | | |
| Client ID: LCSW | Batch ID: 42857 | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868987 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.778 | 0.120 | 0.7500 | 0 | 104 | 90 | 110 | | | | |
| Nitrite (as N) | 0.769 | 0.120 | 0.7500 | 0 | 103 | 90 | 110 | | | | |
| Nitrate (as N) | 0.794 | 0.100 | 0.7500 | 0 | 106 | 90 | 110 | | | | |
| Sulfate | 3.89 | 0.600 | 3.750 | 0 | 104 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2402039-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | | Analysis Date: 2/7/2024 | | | | SeqNo: 1868994 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 54.3 | 2.40 | | | | | | 56.26 | 3.51 | 20 | D | |
| Nitrite (as N) | ND | 2.40 | | | | | | 0 | | 20 | D | |
| Nitrate (as N) | ND | 2.00 | | | | | | 0 | | 20 | D | |
| Sulfate | ND | 12.0 | | | | | | 0 | | 20 | D | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402039-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | Batch ID: 42857 | | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868995 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 69.7 | 2.40 | 15.00 | 56.26 | 89.7 | 80 | 120 | | | | D |
| Nitrite (as N) | 14.9 | 2.40 | 15.00 | 0 | 99.3 | 80 | 120 | | | | D |
| Nitrate (as N) | 15.6 | 2.00 | 15.00 | 0.4400 | 101 | 80 | 120 | | | | D |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2402039-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | | Analysis Date: 2/7/2024 | | | | SeqNo: 1868995 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfate | 81.1 | 12.0 | 75.00 | 6.240 | 99.8 | 80 | 120 | | | | D | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------------------|------|----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2402039-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | Analysis Date: 2/7/2024 | | | SeqNo: 1868996 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 71.5 | 2.40 | 15.00 | 56.26 | 102 | 80 | 120 | 69.72 | 2.52 | 20 | D |
| Nitrite (as N) | 15.4 | 2.40 | 15.00 | 0 | 103 | 80 | 120 | 14.90 | 3.56 | 20 | D |
| Nitrate (as N) | 16.1 | 2.00 | 15.00 | 0.4400 | 104 | 80 | 120 | 15.56 | 3.16 | 20 | D |
| Sulfate | 84.3 | 12.0 | 75.00 | 6.240 | 104 | 80 | 120 | 81.06 | 3.90 | 20 | D |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89559 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MBLKW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869569 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89559 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: LCSW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869570 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.221 | 0.0500 | 0.2000 | 0 | 111 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869626 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.0614 | 0.0500 | | | | | | 0.06724 | 9.01 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869627 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.279 | 0.0500 | 0.2000 | 0.06724 | 106 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869628 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.292 | 0.0500 | 0.2000 | 0.06724 | 112 | 80 | 120 | 0.2793 | 4.46 | 20 | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402099-009CDUP | SampType: DUP | Units: mg/L | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: BATCH | Batch ID: R89559 | Analysis Date: 2/12/2024 | | | | | | | SeqNo: 1869640 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R89535 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | | Batch ID: R89535 | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869134 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89535 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: LCSW | | Batch ID: R89535 | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869135 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 5.05 | 0.700 | 5.000 | 0 | 101 | 90 | 116 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402046-001ADUP | | SampType: DUP | | | Units: mg/L-dry | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | | Batch ID: R89535 | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869138 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | 22.0 | 2.24 | | | | | | | | | |
|----------------------|------|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402064-001AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | | Batch ID: R89535 | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869139 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|-------|------|------|-----|--|--|--|--|
| Total Organic Carbon | 11.5 | 0.700 | 5.000 | 7.032 | 88.9 | 41.1 | 150 | | | | |
|----------------------|------|-------|-------|-------|------|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402064-001AMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | | Batch ID: R89535 | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869140 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|-------|------|------|-----|-------|------|----|--|
| Total Organic Carbon | 11.8 | 0.700 | 5.000 | 7.032 | 94.5 | 41.1 | 150 | 11.48 | 2.44 | 30 | |
|----------------------|------|-------|-------|-------|------|------|-----|-------|------|----|--|

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402100-001CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/9/2024 | | | RunNo: 89535 | | |
| Client ID: MW-19D-W | | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869477 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2402100-001CMS | | SampType: MS | | Units: mg/L | | Prep Date: 2/10/2024 | | RunNo: 89535 | | | |
| Client ID: MW-19D-W | | Batch ID: R89535 | | | | Analysis Date: 2/10/2024 | | SeqNo: 1869438 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89609 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: LCSW | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | SeqNo: 1870671 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|-----|------|-----|--|--|--|--|
| Methane | 1,070 | 0.00675 | 1,000 | 0 | 107 | 73.6 | 124 | | | | |
| Ethene | 1,040 | 0.0146 | 1,000 | 0 | 104 | 76.3 | 122 | | | | |
| Ethane | 1,060 | 0.0151 | 1,000 | 0 | 106 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R89609 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: MBLKW | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | SeqNo: 1870670 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-007DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: BATCH | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | SeqNo: 1870653 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|--|--|--|--|--|-------|------|----|---|
| Methane | 6.50 | 0.00675 | | | | | | 5.420 | 18.1 | 30 | E |
| Ethene | 0.116 | 0.0146 | | | | | | 0 | 200 | 30 | |
| Ethane | 0.153 | 0.0151 | | | | | | 0 | 200 | 30 | |



Sample Log-In Check List

Date Received: 2/7/2024 12:10:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

- | | | | |
|--|---|--|---|
| 3. Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Were all items received at a temperature of >2°C to 6°C * | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 6. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Are samples properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Was preservative added to bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| | | | H2SO4 |
| 10. Is there headspace in the VOA vials? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 11. Did all samples containers arrive in good condition(unbroken)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Does paperwork match bottle labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 15. Were all hold times (except field parameters, pH e.g.) able to be met? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original

2402 100

PO#

D-668

REMARKS

SAMPLE DISPOSAL.

Return samples

Will call with instructions

| | |
|---------------------------------|-------|
| SUBCONTRACTOR <i>Fremont</i> | |
| PROJECT NAME/NO. | PO # |
| 402092 | D-668 |
| REMARKS | |

COMPANY

Friedman & Bruya

1-A)

1

1

Page 19 of 19

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 21, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 1, 2024 from the Whidbey Marine 0204475-001, F&BI 402019 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0221R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 1, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402019 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402019 -01 | HA-4-S1 |
| 402019 -02 | HA-4-S2 |
| 402019 -03 | HA-4-S3 |
| 402019 -04 | HA-4-S4 |
| 402019 -05 | HA-4-S5 |
| 402019 -06 | HA-4-S6 |

Samples HA-4-S2, HA-4-S4, and HA-4-S6 were sent to Fremont Analytical for total organic carbon analysis. In addition, sample HA-4-S4 was sent to Fremont for EPH and VPH analyses. The reports are enclosed.

The 8260D acetone calibration standard did not meet the acceptance criteria. The data were flagged accordingly.

The 8270E calibration standard failed the acceptance criteria for nitrobenzene-d5 surrogate. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: NA

Date Analyzed: 02/02/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|----------------------|-------------------|
| Laboratory ID | |
| HA-4-S1 402019-01 | 3 |
| HA-4-S2 402019-02 | 5 |
| HA-4-S3 402019-03 | 8 |
| HA-4-S4 402019-04 | 12 |
| HA-4-S5 402019-05 | 7 |
| HA-4-S6 402019-06 | 15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/05/24

Date Analyzed: 02/05/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| HA-4-S1 402019-01 | <5 | 134 |
| HA-4-S2 402019-02 | <5 | 134 |
| HA-4-S3 402019-03 | <5 | 133 |
| HA-4-S4 402019-04 1/10 | 700 | 183 |
| HA-4-S6 402019-06 | 9.1 | 140 |
| Method Blank 04-199 MB | <5 | 132 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/05/24

Date Analyzed: 02/05/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-4-S5 402019-05 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 115 |
| Method Blank 04-199 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 116 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/02/24

Date Analyzed: 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-4-S1 402019-01 | <50 | <250 | 90 |
| HA-4-S2 402019-02 | <50 | <250 | 88 |
| HA-4-S3 402019-03 | <50 | <250 | 87 |
| HA-4-S4 402019-04 | <50 | <250 | 90 |
| HA-4-S5 402019-05 | <50 | <250 | 88 |
| HA-4-S6 402019-06 | <50 | <250 | 87 |
| Method Blank 04-291 MB | <50 | <250 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-01 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-01.095 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.57 |
| Lead | 2.92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-02 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-02.096 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-03 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-03.097 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.30 |
| Lead | 1.78 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-04 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-04.098 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.26 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-06 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-06.099 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.98 |
| Lead | 1.97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | I4-80 mb2 |
| Date Analyzed: | 02/02/24 | Data File: | I4-80 mb2.038 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-01 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020619.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-02 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020620.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 94 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 105 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-4-S3 | Client: Haley & Aldrich, Inc |
| Date Received: 02/01/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 02/06/24 | Lab ID: 402019-03 1/0.5 |
| Date Analyzed: 02/06/24 | Data File: 020621.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0024 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.018 |
| Hexane | <0.25 | o-Xylene | 0.0040 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | 0.0014 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.012 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-4-S4 | Client: Haley & Aldrich, Inc |
| Date Received: 02/01/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 02/06/24 | Lab ID: 402019-04 1/0.5 |
| Date Analyzed: 02/06/24 | Data File: 020622.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 84 | 120 |
| Toluene-d8 | 110 | 73 | 128 |
| 4-Bromofluorobenzene | 119 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0098 |
| Hexane | 2.8 | o-Xylene | 0.0013 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | 0.068 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.26 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.18 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.33 |
| Benzene | <0.001 | sec-Butylbenzene | 0.49 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | 0.21 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0046 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-05 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020623.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 84 | 120 |
| Toluene-d8 | 100 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-06 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020624.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 84 | 120 |
| Toluene-d8 | 104 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.52 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 2.1 |
| Hexane | <0.25 | o-Xylene | 0.80 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.11 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.18 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.75 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.036 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.36 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 04-0280 mb 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020606.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-01 1/5 |
| Date Analyzed: | 02/05/24 | Data File: | 020435.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 83 | 10 | 198 |
| 2-Fluorobiphenyl | 87 | 45 | 117 |
| 2,4,6-Tribromophenol | 72 | 11 | 158 |
| Terphenyl-d14 | 101 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-02 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020408.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 83 ca | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 66 | 17 | 154 |
| Terphenyl-d14 | 84 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-03 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020409.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 92 ca | 16 | 137 |
| 2-Fluorobiphenyl | 87 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 88 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-04 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020410.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 104 ca | 16 | 137 |
| 2-Fluorobiphenyl | 92 | 46 | 122 |
| 2,4,6-Tribromophenol | 75 | 17 | 154 |
| Terphenyl-d14 | 86 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | 0.15 |
| 1-Methylnaphthalene | 0.065 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.044 |
| Anthracene | 0.030 |
| Fluoranthene | 0.013 |
| Pyrene | 0.026 |
| Benz(a)anthracene | 0.027 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-06 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020412.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 96 ca | 16 | 137 |
| 2-Fluorobiphenyl | 92 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 87 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.024 |
| 2-Methylnaphthalene | 0.026 |
| 1-Methylnaphthalene | 0.011 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 04-0292 mb 1/5 |
| Date Analyzed: | 02/05/24 | Data File: | 020434.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 91 | 10 | 198 |
| 2-Fluorobiphenyl | 97 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 105 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402019-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 1.0 | 96 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 95 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 100 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 103 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 402028-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 2,100 | 88 | 92 | 63-146 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 77-123 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402008-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 102 | 99 | 75-125 | 3 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 103 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 94 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401389-42 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 39 | 38 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 75 | 73 | 10-126 | 3 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 72 | 66 | 10-138 | 9 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 60 | 55 | 10-163 | 9 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 61 | 52 | 10-176 | 16 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 65 | 60 | 10-176 | 8 |
| Acetone | mg/kg (ppm) | 10 | <5 | 74 | 68 | 10-163 | 8 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 71 | 10-160 | 5 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 69 | 66 | 10-137 | 4 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 70 | 66 | 10-156 | 6 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 84 | 79 | 21-145 | 6 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 72 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 81 | 75 | 19-140 | 8 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 84 | 78 | 10-158 | 7 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 74 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 78 | 75 | 21-145 | 4 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 78 | 71 | 19-147 | 9 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 83 | 78 | 12-160 | 6 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 78 | 73 | 10-156 | 7 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 76 | 74 | 17-140 | 3 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 80 | 74 | 9-164 | 8 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 78 | 73 | 29-129 | 7 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 76 | 73 | 21-139 | 4 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 81 | 77 | 30-135 | 5 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 79 | 79 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 74 | 70 | 23-145 | 6 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 82 | 80 | 24-155 | 2 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 84 | 78 | 28-144 | 7 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 80 | 79 | 35-130 | 1 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 87 | 84 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 85 | 88 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <0.5 | 79 | 83 | 15-166 | 5 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 88 | 85 | 31-137 | 3 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 80 | 80 | 20-133 | 0 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 83 | 82 | 28-150 | 1 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 83 | 81 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 80 | 79 | 32-129 | 1 |
| Ethylbenzene | mg/kg (ppm) | 2 | 0.034 | 83 | 82 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 83 | 82 | 31-143 | 1 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 81 | 81 | 34-136 | 0 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 81 | 79 | 33-134 | 2 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 80 | 80 | 35-137 | 0 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 81 | 79 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 87 | 85 | 21-156 | 2 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 0.043 | 86 | 83 | 23-146 | 4 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 86 | 81 | 34-130 | 6 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 86 | 83 | 18-149 | 4 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 87 | 85 | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 91 | 87 | 25-144 | 4 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 85 | 83 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 84 | 82 | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 85 | 82 | 30-137 | 4 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 0.038 | 86 | 83 | 10-182 | 4 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 89 | 84 | 23-145 | 6 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 0.83 | 91 b | 88 b | 21-149 | 3 b |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 80 | 78 | 30-131 | 3 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 84 | 80 | 29-129 | 5 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 83 | 79 | 31-132 | 5 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 85 | 86 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 82 | 80 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 98 | 97 | 10-142 | 1 |
| Naphthalene | mg/kg (ppm) | 2 | 0.088 | 84 | 81 | 14-157 | 4 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 85 | 82 | 20-144 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|----------------------|---------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 104 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 91 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 70 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 67 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 87 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 89 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 94 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 100 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 91 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 96 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 92 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 95 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 91 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 92 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 95 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 97 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 91 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 95 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 95 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 93 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 90 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 95 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 96 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 89 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 96 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 98 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 99 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 102 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 106 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 106 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 106 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 99 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 103 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 105 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 99 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 100 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 99 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 100 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 97 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 102 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 99 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 106 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 110 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 108 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 109 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 118 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 105 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 107 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 104 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 108 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 102 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 107 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 113 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 105 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 402019-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 81 | 28-125 | 0 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 83 | 10-192 | 2 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 79 | 10-163 | 2 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 86 | 45-128 | 2 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 85 | 36-125 | 2 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 87 | 48-121 | 3 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 87 | 46-122 | 4 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 89 | 30-144 | 3 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 98 | 93 | 50-150 | 5 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 91 | 40-134 | 0 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 92 | 50-150 | 0 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 95 | 50-150 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 98 | 98 | 50-150 | 0 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 94 | 50-150 | 2 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 100 | 98 | 50-150 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 101 | 99 | 40-140 | 2 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 99 | 96 | 41-136 | 3 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 94 | 29-139 | 2 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 85 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 87 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 82 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 89 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 88 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 90 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 91 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 91 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 94 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 96 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 100 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 95 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 99 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 104 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 103 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402019

SAMPLE CHAIN OF CUSTODY

02/01/24

B2/N2

Page # 1 of 1

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

PO #

Whidbey Marine0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

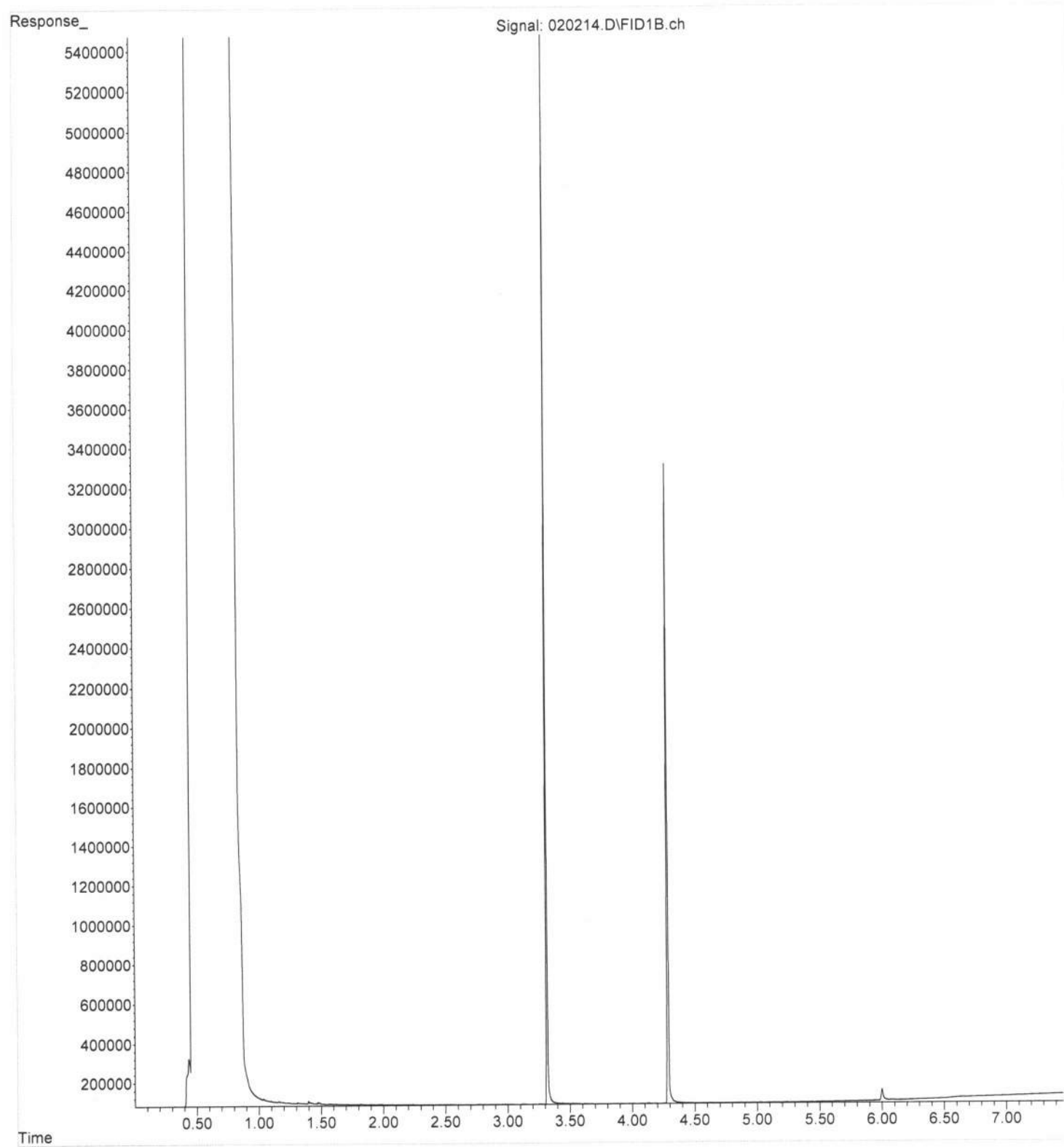
Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | A-per HG 02/06/24 ME Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|------------------------------|------------|---------------|---------------|---------------|----------------|---------------|-----|-------|---|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 EPH and VPH | NWTPH-HC4D | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | EDB, EDC, MTBE | Lead, Arsenic | TOC | cVOCs | |
| HA-4-51 | 01 A-F | 1/29/24 | 1110 | S | 6 | X | X | | | X | X | | X | X | | | Hold for |
| HA-4-52 | 02 | | 1130 | | | X | X | | | X | X | | X | X | X | | analyses. |
| HA-4-53 | 03 | | 1340 | | | X | X | | | X | X | | X | X | | | PM to reach |
| HA-4-54 | 04 | | 1350 | | | X | X | | A | X | X | | X | X | X | | -out- |
| HA-4-55 | 05 | | 1400 | | | X | X | X | | | | | | | | X | Provide |
| HA-4-56 | 06 ✓ | ↓ | 1600 | ↓ | ↓ | X | X | | | X | X | | X | X | X | | chromatograms w/ TPH analyses and TPH prelims for possible EPH/ VPH follow-ups |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

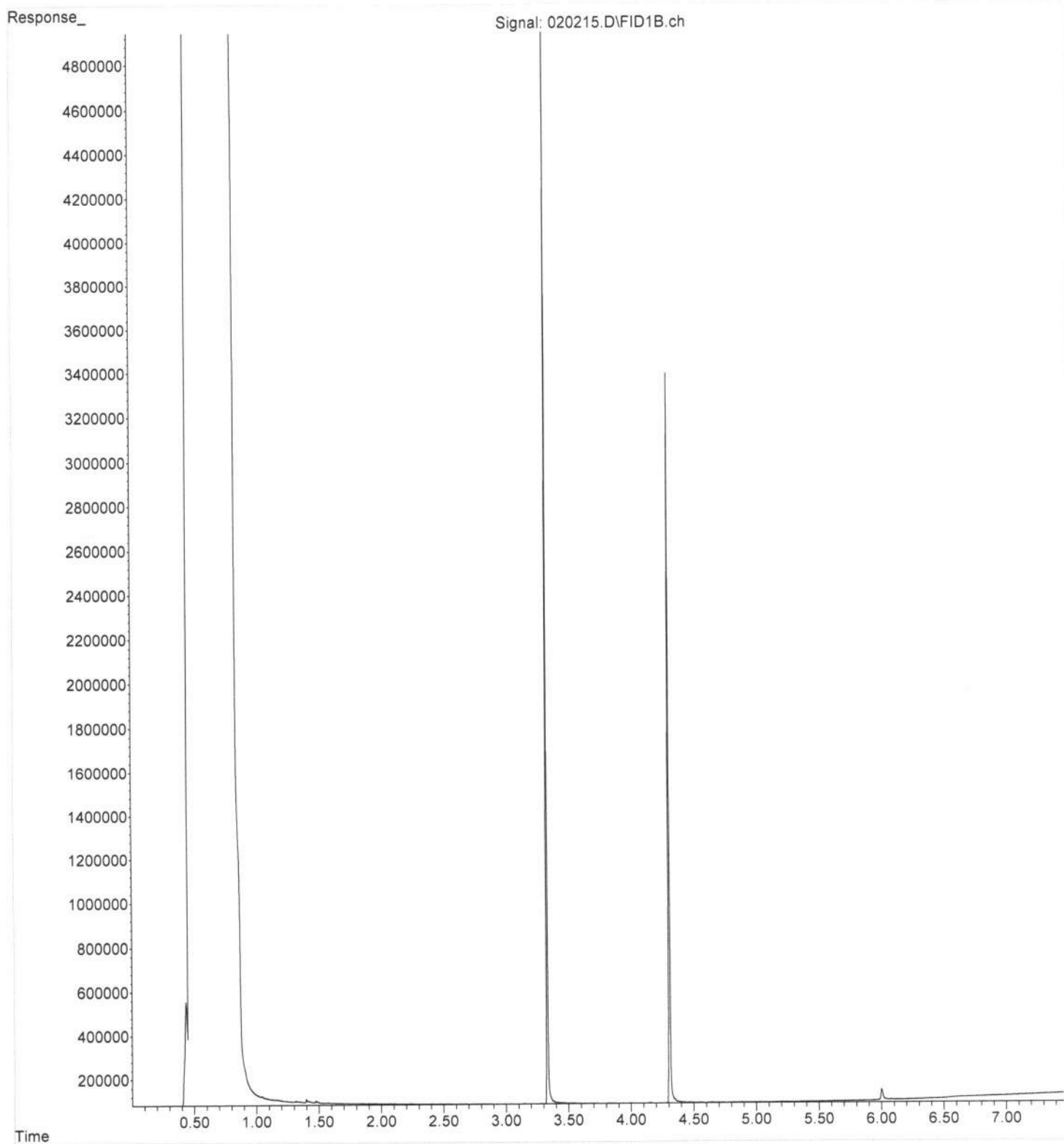
Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|----------------------|---------------------------------|---------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Zach Stephens</u> | <u>H+A</u> | <u>2/1/24</u> | <u>1517</u> |
| Received by: <u>[Signature]</u> | <u>Nhan Phan</u> | <u>FEBT</u> | <u>2/1/24</u> | <u>1517</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>1</u> °C | | |

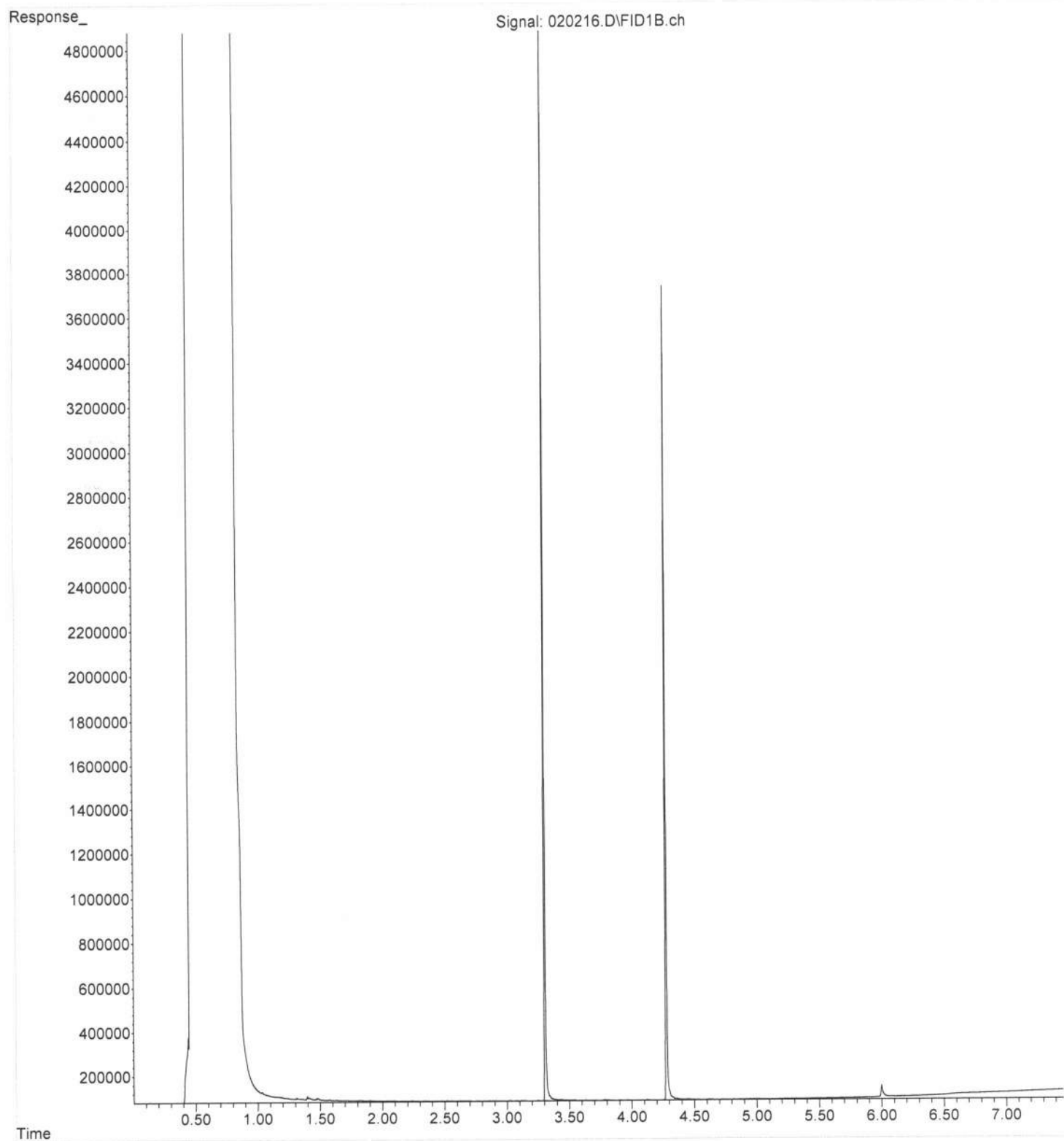
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Operator : IJL
Acquired : 02 Feb 2024 11:43 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-01
Misc Info :
Vial Number: 14



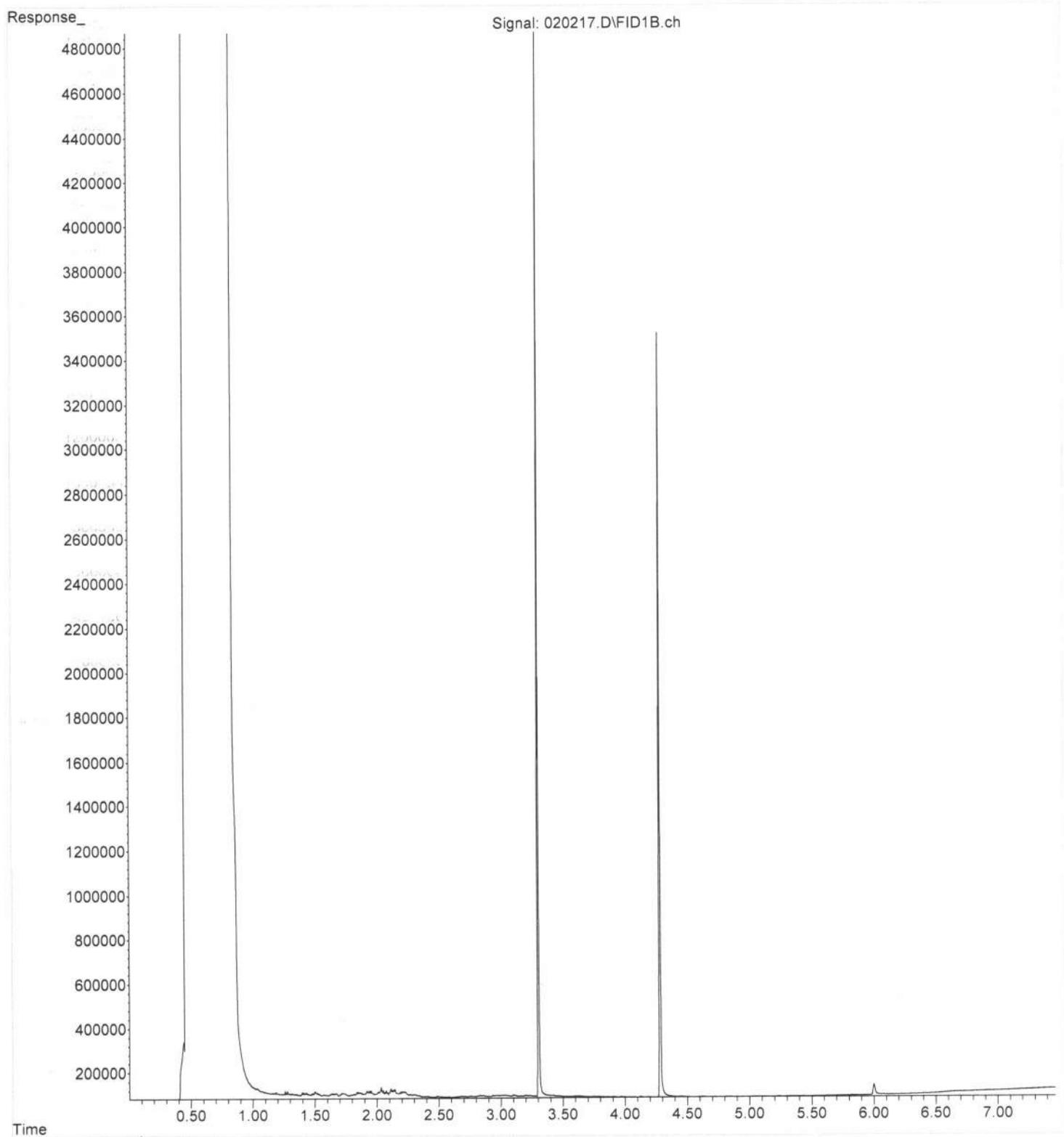
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Operator : IJL
Acquired : 02 Feb 2024 11:55 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-02
Misc Info :
Vial Number: 15



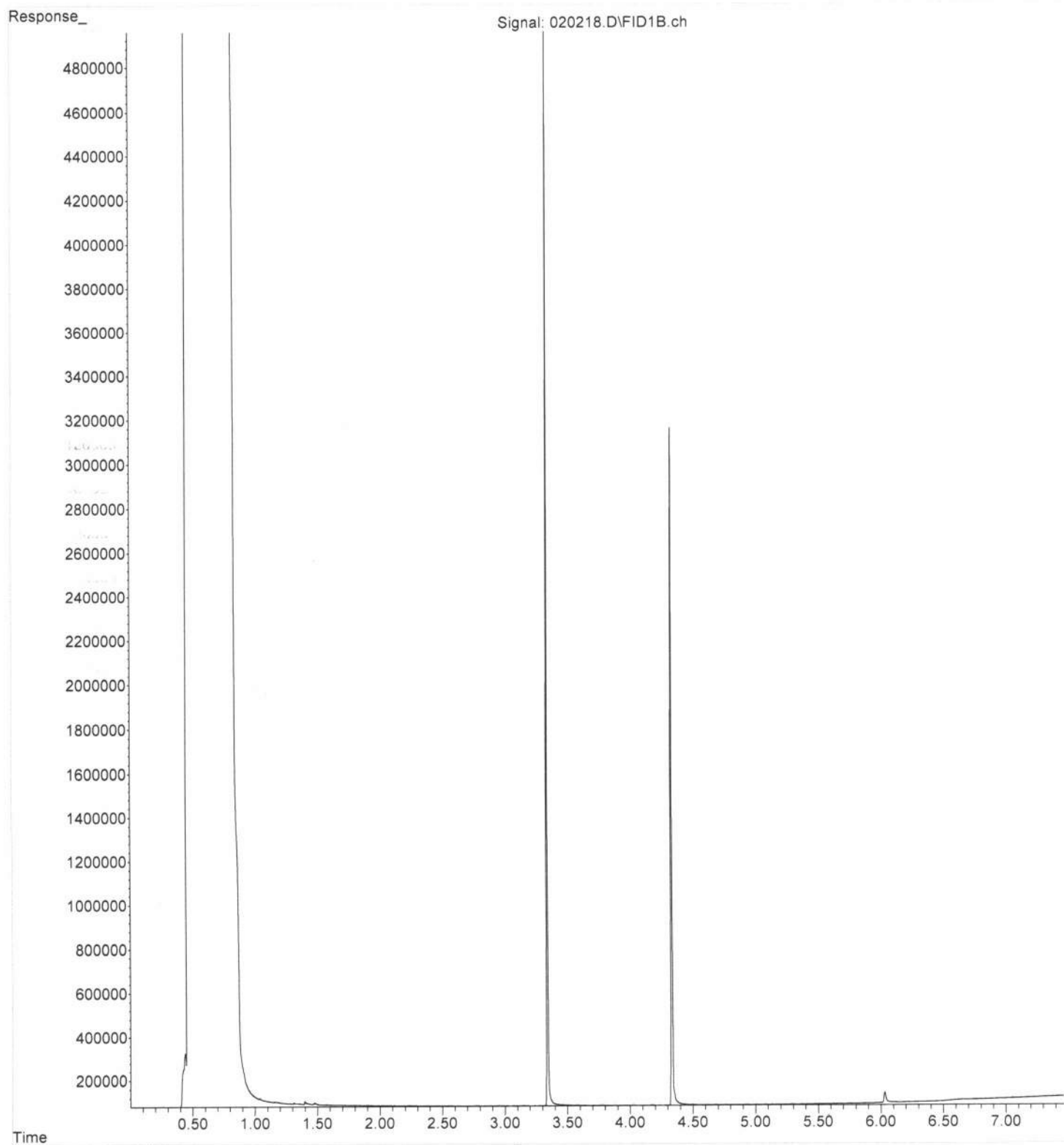
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Operator : IJL
Acquired : 02 Feb 2024 12:07 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-03
Misc Info :
Vial Number: 16



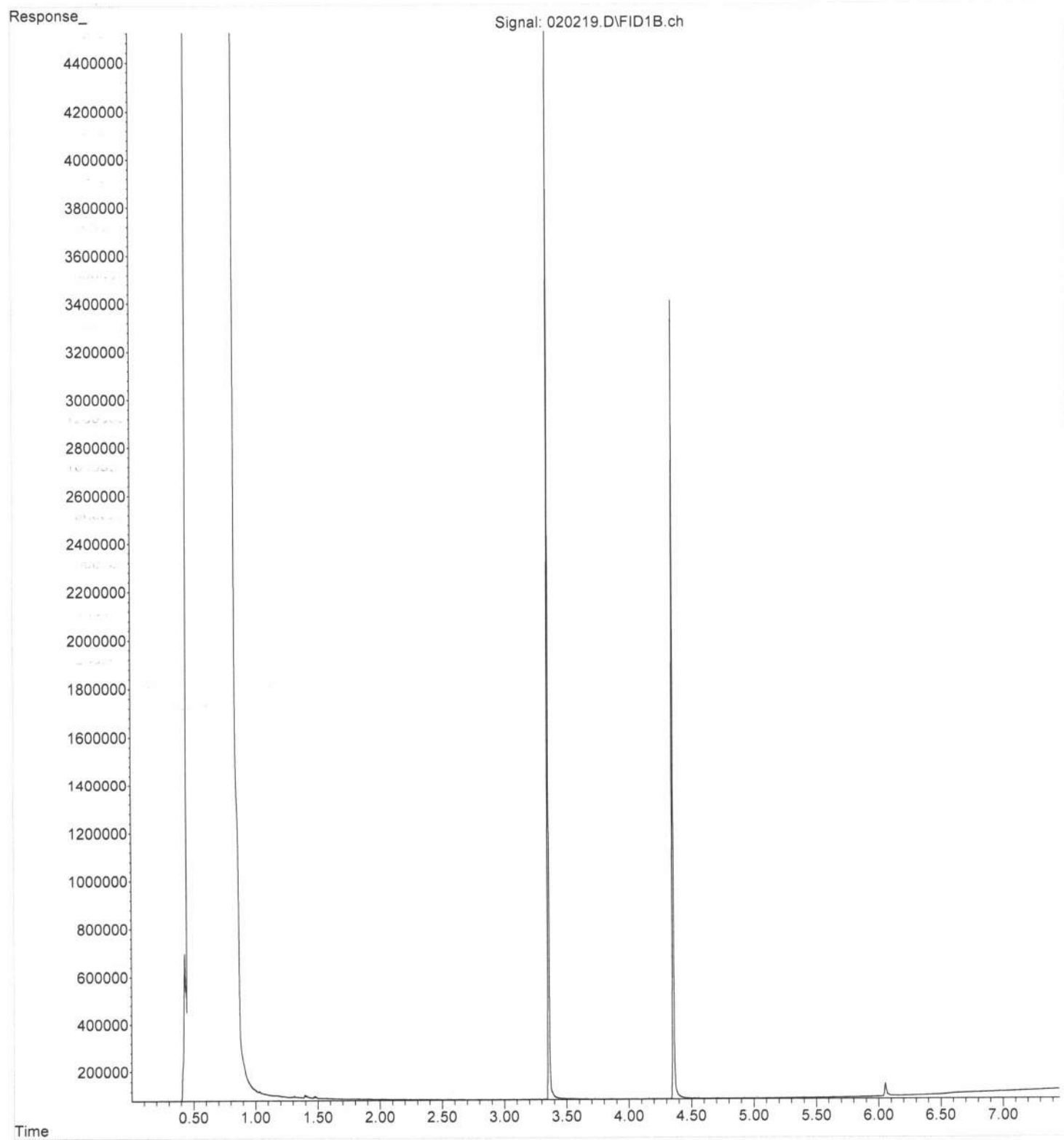
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Acquired : 02 Feb 2024 12:18 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-04
Misc Info :
Vial Number: 17



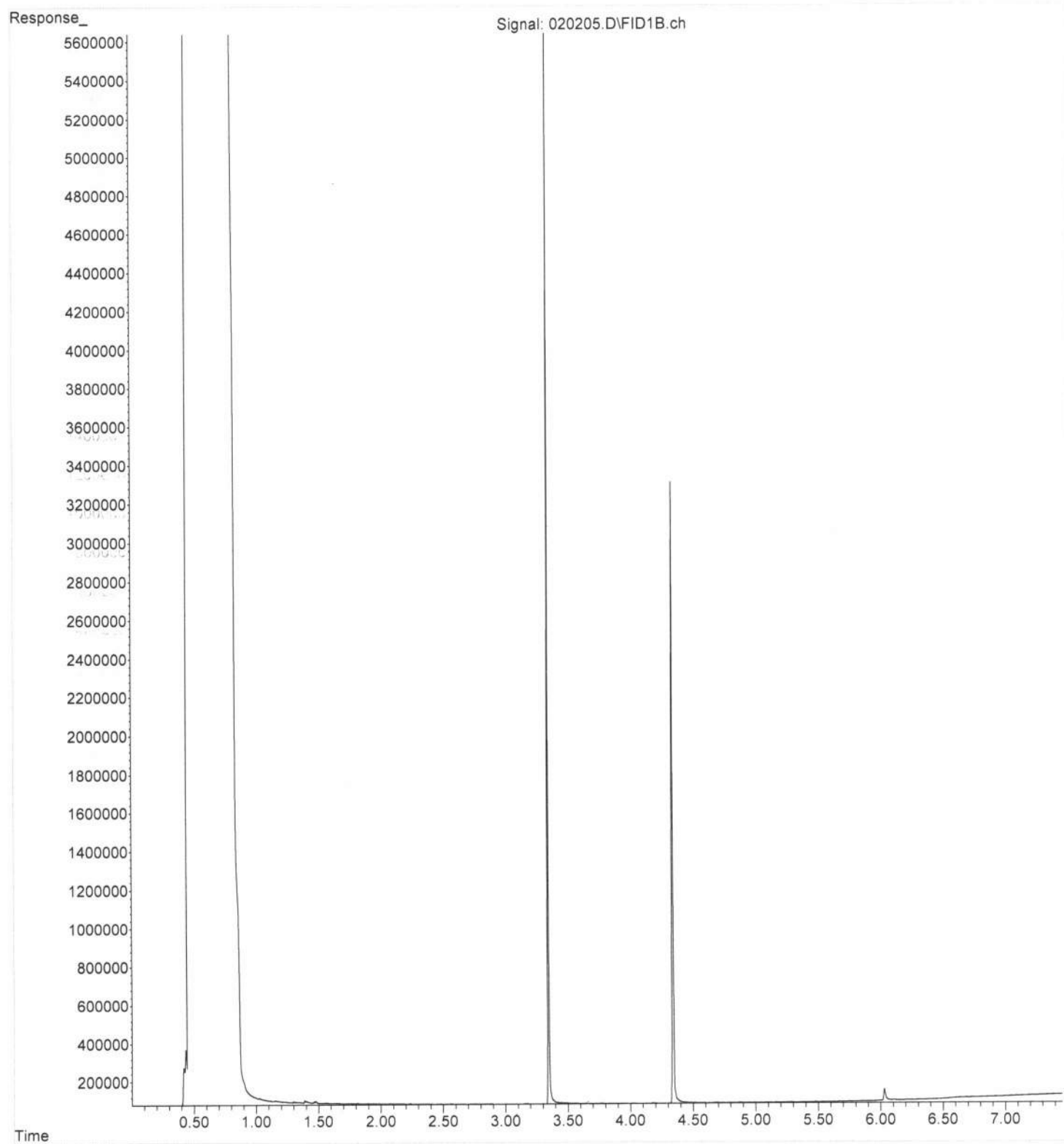
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Operator : IJL
Acquired : 02 Feb 2024 12:30 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-05
Misc Info :
Vial Number: 18



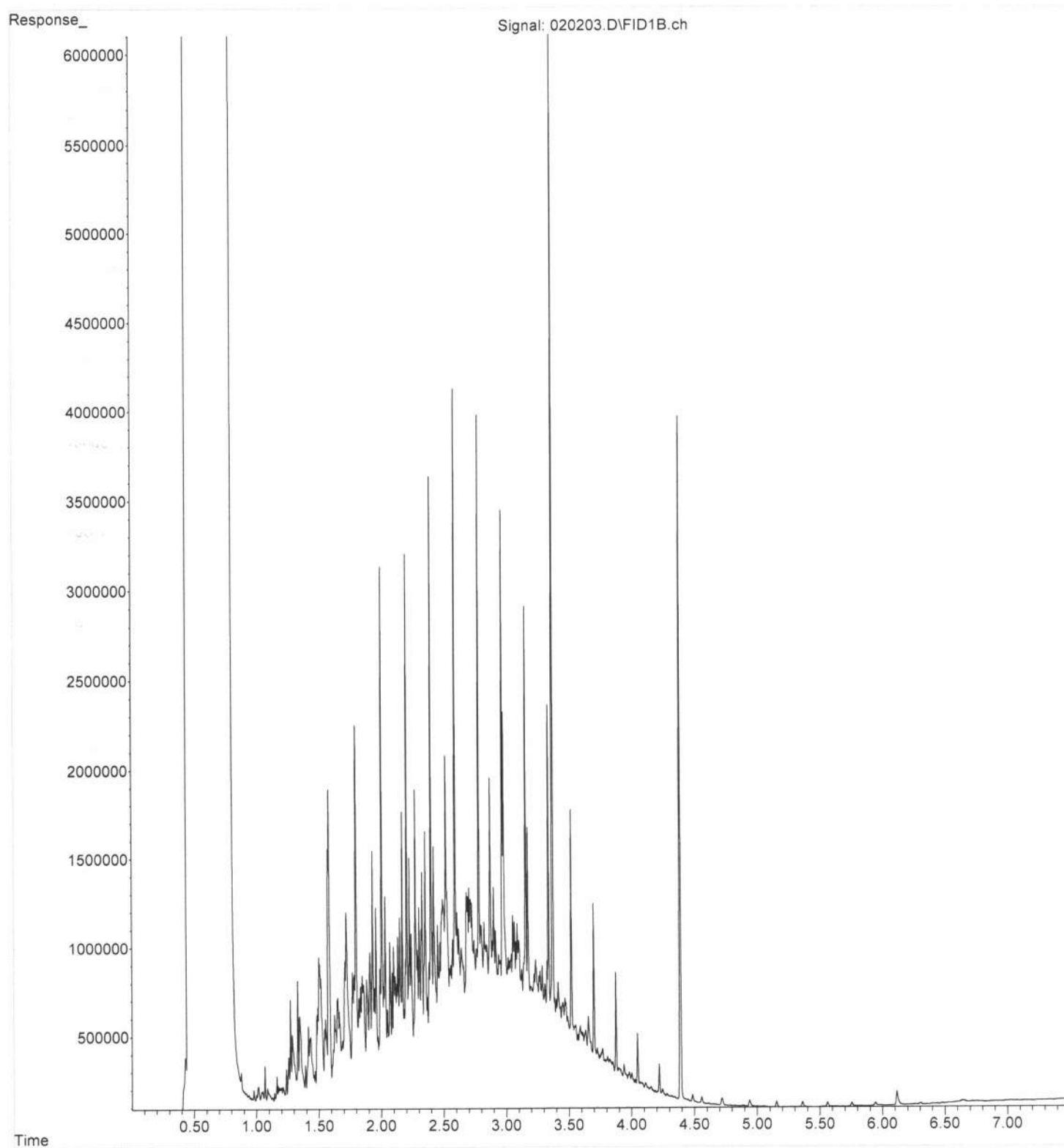
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Operator : IJL
Acquired : 02 Feb 2024 12:42 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 402019-06
Misc Info :
Vial Number: 19



File :P:\Proc_GC10\02-02-24\020205.D
Operator : IJL
Acquired : 02 Feb 2024 10:00 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 04-291 mb
Misc Info :
Vial Number: 7



File :P:\Proc_GC10\02-02-24\020203.D
Operator : IJL
Acquired : 02 Feb 2024 09:02 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 500 DX 70-26F
Misc Info :
Vial Number: 3





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402019
Work Order Number: 2402086

February 20, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 2/6/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH

Sample Moisture (Percent Moisture)

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402019
Work Order: 2402086

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402086-001 | HA-4-S4 | 01/29/2024 1:50 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya**Project:** 402019

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402019

Lab ID: 2402086-001

Collection Date: 1/29/2024 1:50:00 PM

Client Sample ID: HA-4-S4

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42874

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C10-C12) | 15.9 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C12-C16) | 17.3 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 21.9 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C12-C16) | 30.1 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C16-C21) | 20.9 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Surr: 1-Chlorooctadecane | 66.6 | 50 - 150 | | %Rec | 1 | 2/12/2024 2:32:59 PM |
| Surr: o-Terphenyl | 84.5 | 50 - 150 | | %Rec | 1 | 2/12/2024 2:32:59 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 2.22 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 16.2 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 37.1 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 36.0 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 17.0 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 28.6 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 16.8 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Surr: 2,5-dibromotoluene | 99.4 | 60 - 140 | | %Rec | 1 | 2/7/2024 4:53:00 PM |

Sample Moisture (Percent Moisture)

Batch ID: R89488

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 12.8 | 0.500 | | wt% | 1 | 2/8/2024 9:59:29 AM |
|------------------|------|-------|--|-----|---|---------------------|

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42874 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/8/2024 | | | RunNo: 89581 | | |
| Client ID: MBLKS | Batch ID: 42874 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870044 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 65.5 | | 100.0 | | 65.5 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42874 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/8/2024 | | | RunNo: 89582 | | |
| Client ID: MBLKS | Batch ID: 42874 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870052 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 93.8 | | 100.0 | | 93.8 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42874 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/8/2024 | | | RunNo: 89581 | | |
| Client ID: LCSS | Batch ID: 42874 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870045 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 105 | 20.0 | 250.0 | 0 | 42.1 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 68.7 | 10.0 | 125.0 | 0 | 55.0 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 77.6 | 10.0 | 125.0 | 0 | 62.1 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 85.8 | 10.0 | 125.0 | 0 | 68.7 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 97.2 | 10.0 | 125.0 | 0 | 77.7 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 70.4 | | 100.0 | | 70.4 | 50 | 150 | | | | |

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|----------------------------|-----------|-----------------------|---------------------|----------|------|
| Sample ID: LCS-42874 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/8/2024 | | | RunNo: 89582 | | |
| Client ID: LCSS | Batch ID: 42874 | Analysis Date: 2/12/2024 | | | | | | SeqNo: 1870053 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 136 | 20.0 | 250.0 | 0 | 54.2 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 93.2 | 10.0 | 125.0 | 0 | 74.5 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 109 | 10.0 | 125.0 | 0 | 87.0 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 123 | 10.0 | 125.0 | 0 | 98.5 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 107 | 10.0 | 125.0 | 0 | 85.3 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 89.2 | | 100.0 | | 89.2 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|-------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402128-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | | RunNo: 89581 | | |
| Client ID: BATCH | | Batch ID: 42874 | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870048 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 91.9 | 22.5 | 280.7 | 14.63 | 27.5 | 6.01 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 106 | 11.2 | 140.4 | 65.65 | 28.8 | 11.6 | 127 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 231 | 11.2 | 140.4 | 234.0 | -1.96 | 24.7 | 129 | | | | S |
| Aliphatic Hydrocarbon (C16-C21) | 191 | 11.2 | 140.4 | 166.5 | 17.6 | 25.5 | 132 | | | | S |
| Aliphatic Hydrocarbon (C21-C34) | 165 | 11.2 | 140.4 | 98.08 | 47.7 | 21.4 | 138 | | | | |
| Surr: 1-Chlorooctadecane | 61.0 | | 112.3 | | 54.4 | 50 | 150 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2402128-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | RunNo: 89582 | | | |
| Client ID: BATCH | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870056 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 122 | 22.5 | 280.7 | 8.000 | 40.6 | 12.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 110 | 11.2 | 140.4 | 34.34 | 53.6 | 26.3 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 178 | 11.2 | 140.4 | 112.0 | 46.8 | 23.3 | 139 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 211 | 11.2 | 140.4 | 174.1 | 26.5 | 32.2 | 131 | | | | S |
| Aromatic Hydrocarbon (C21-C34) | 146 | 11.2 | 140.4 | 106.0 | 28.8 | 35.8 | 139 | | | | S |
| Surr: o-Terphenyl | 75.6 | | 112.3 | | 67.3 | 50 | 150 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: 2402128-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | RunNo: 89581 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870049 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 137 | 22.2 | 277.2 | 14.63 | 44.0 | 6.01 | 130 | 91.93 | 39.2 | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | 150 | 11.1 | 138.6 | 65.65 | 61.1 | 11.6 | 127 | 106.1 | 34.4 | 30 | |
| Aliphatic Hydrocarbon (C12-C16) | 337 | 11.1 | 138.6 | 234.0 | 74.6 | 24.7 | 129 | 231.2 | 37.3 | 30 | |
| Aliphatic Hydrocarbon (C16-C21) | 265 | 11.1 | 138.6 | 166.5 | 70.7 | 25.5 | 132 | 191.3 | 32.1 | 30 | |
| Aliphatic Hydrocarbon (C21-C34) | 210 | 11.1 | 138.6 | 98.08 | 81.1 | 21.4 | 138 | 165.0 | 24.2 | 30 | |
| Surr: 1-Chlorooctadecane | 78.0 | | 110.9 | | 70.3 | 50 | 150 | | 0 | | |

| Sample ID: 2402128-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | RunNo: 89582 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870057 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 147 | 22.2 | 277.2 | 8.000 | 50.1 | 12.6 | 130 | 121.9 | 18.6 | 30 | |
| Aromatic Hydrocarbon (C10-C12) | 129 | 11.1 | 138.6 | 34.34 | 68.3 | 26.3 | 130 | 109.6 | 16.3 | 30 | |
| Aromatic Hydrocarbon (C12-C16) | 217 | 11.1 | 138.6 | 112.0 | 75.5 | 23.3 | 139 | 177.8 | 19.8 | 30 | |
| Aromatic Hydrocarbon (C16-C21) | 271 | 11.1 | 138.6 | 174.1 | 70.2 | 32.2 | 131 | 211.3 | 24.9 | 30 | |
| Aromatic Hydrocarbon (C21-C34) | 186 | 11.1 | 138.6 | 106.0 | 58.0 | 35.8 | 139 | 146.4 | 24.1 | 30 | |
| Surr: o-Terphenyl | 87.7 | | 110.9 | | 79.1 | 50 | 150 | | 0 | | |

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42804 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868715 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 19.6 | 2.50 | 20.00 | 0 | 98.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 8.87 | 2.50 | 10.00 | 0 | 88.7 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 48.7 | 2.50 | 50.00 | 0 | 97.5 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 9.91 | 2.50 | 10.00 | 0 | 99.1 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.41 | | 2.500 | | 96.3 | 60 | 140 | | | | |

| Sample ID: MB-42804 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868698 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 2.37 | | 2.500 | | 95.0 | 60 | 140 | | | | |

| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|--------|----------|------|
| Client ID: BATCH | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868703 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 104 | 18.3 | | 0 | 0 | | | 113.7 | 8.57 | 25 | D |
| Aliphatic Hydrocarbon (C6-C8) | 499 | 18.3 | | 0 | 0 | | | 498.5 | 0.0812 | 25 | D |
| Aliphatic Hydrocarbon (C8-C10) | 419 | 18.3 | | 0 | 0 | | | 395.4 | 5.80 | 25 | DE |
| Aliphatic Hydrocarbon (C10-C12) | 525 | 18.3 | | 0 | 0 | | | 505.0 | 3.86 | 25 | DE |
| Aromatic Hydrocarbon (C8-C10) | 1,810 | 18.3 | | 0 | 0 | | | 1,757 | 3.17 | 25 | D |

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
| Client ID: BATCH | | Batch ID: 42804 | | Analysis Date: 2/7/2024 | | | | | SeqNo: 1868703 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 608 | 18.3 | | 0 | 0 | | | 596.1 | 1.91 | 25 | DE |
| Aromatic Hydrocarbon (C12-C13) | 208 | 18.3 | | 0 | 0 | | | 204.9 | 1.53 | 25 | D |
| Surr: 2,5-dibromotoluene | 19.0 | | 18.30 | | 104 | 60 | 140 | | 0 | 0 | D |

| Sample ID: 2402008-005BMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
|----------------------------------|------------------------|--------------------------------|-----------|-------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42804 | Analysis Date: 2/7/2024 | | | | | | | SeqNo: 1868705 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 24.0 | 1.67 | 13.35 | 10.72 | 99.7 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C6-C8) | 18.6 | 1.67 | 6.673 | 11.16 | 111 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C8-C10) | 73.0 | 1.67 | 6.673 | 67.05 | 89.0 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C10-C12) | 152 | 1.67 | 6.673 | 148.0 | 63.0 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C8-C10) | 143 | 1.67 | 33.36 | 111.3 | 95.5 | 70 | 130 | | | | H |
| Aromatic Hydrocarbon (C10-C12) | 141 | 1.67 | 6.673 | 139.7 | 15.6 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C12-C13) | 74.3 | 1.67 | 6.673 | 69.70 | 68.8 | 70 | 130 | | | | SH |
| Surr: 2,5-dibromotoluene | 1.82 | | 1.668 | | 109 | 60 | 140 | | | | H |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402086
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 5.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402086
Page #

Send Report To Michael Erdahl

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME
☒ Standard TAT
 RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 12 of 12

[illegible]



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402019
Work Order Number: 2402047

February 09, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 2/2/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402019
Work Order: 2402047

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2402047-001 | HA-4-S2 | 01/29/2024 11:30 AM | 02/02/2024 12:53 PM |
| 2402047-002 | HA-4-S4 | 01/29/2024 1:50 PM | 02/02/2024 12:53 PM |
| 2402047-003 | HA-4-S6 | 01/29/2024 4:00 PM | 02/02/2024 12:53 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 402019

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2402047**
Date Reported: **2/9/2024**

CLIENT: Friedman & Bruya
Project: 402019

Lab ID: 2402047-001 **Collection Date:** 1/29/2024 11:30:00 AM
Client Sample ID: HA-4-S2 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|---------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42885 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 3:08:00 PM |

Lab ID: 2402047-002 **Collection Date:** 1/29/2024 1:50:00 PM
Client Sample ID: HA-4-S4 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|---------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42885 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 4:10:00 PM |

Lab ID: 2402047-003 **Collection Date:** 1/29/2024 4:00:00 PM
Client Sample ID: HA-4-S6 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|---------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42885 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 4:24:00 PM |

Work Order: 2402047
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-42885 | SampType: MBLK | Units: %-dry | | Prep Date: 2/9/2024 | RunNo: 89546 | | | | | | | |
| Client ID: MBLKS | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | SeqNo: 1869395 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-42885 | SampType: LCS | Units: %-dry | | Prep Date: 2/9/2024 | RunNo: 89546 | | | | | | | |
| Client ID: LCSS | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | SeqNo: 1869396 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402047-001ADUP | SampType: DUP | Units: %-dry | | Prep Date: 2/9/2024 | RunNo: 89546 | | | | | | | |
| Client ID: HA-4-S2 | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | SeqNo: 1869398 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402047-001AMS | SampType: MS | Units: %-dry | | Prep Date: 2/9/2024 | RunNo: 89546 | | | | | | | |
| Client ID: HA-4-S2 | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | SeqNo: 1869399 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.10 | 0.150 | 1.000 | 0 | 110 | 75 | 125 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402047-001AMSD | SampType: MSD | Units: %-dry | | Prep Date: 2/9/2024 | RunNo: 89546 | | | | | | | |
| Client ID: HA-4-S2 | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | SeqNo: 1869400 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | 1.095 | 1.63 | 20 | | |

Sample Log-In Check List

Client Name: FB

Work Order Number: 2402047

Logged by: Morgan Wilson

Date Received: 2/2/2024 12:53:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.2 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402047

SUBCONTRACTER
Fremont

PROJECT NAME/NO.

PO #

402019

D-655

REMARKS

EIM and EQUIS 4

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME
☒ Standard TAT
 RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 8 of 8

[illegible]

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 26, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on January 29, 2024 from the Whidbey Marine 0204475-001, F&BI 401358 project. The sample IDs for the TSS results have been corrected.

We apologize for the inconvenience and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 23, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 29, 2024 from the Whidbey Marine 0204475-001, F&BI 401358 project. There are 126 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 29, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 401358 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401358 -01 | HA-1-S1 |
| 401358 -02 | HA-1-S2 |
| 401358 -03 | HA-1-S3 |
| 401358 -04 | HA-1-S4 |
| 401358 -05 | HA-1-S5 |
| 401358 -06 | HA-1-S6 |
| 401358 -07 | HA-1-DUP |
| 401358 -08 | HA-2-S1.5 |
| 401358 -09 | HA-2-S2 |
| 401358 -10 | HA-2-S3 |
| 401358 -11 | HA-2-S4 |
| 401358 -12 | HA-2-S5 |
| 401358 -13 | HA-2-S6 |
| 401358 -14 | HA-2-S7 |
| 401358 -15 | HA-2-S8 |
| 401358 -16 | HA-2-S9 |
| 401358 -17 | HA-2-S10 |
| 401358 -18 | HA-3-S1 |
| 401358 -19 | HA-3-S2 |
| 401358 -20 | HA-3-S3 |
| 401358 -21 | HA-3-S4 |
| 401358 -22 | HA-3-S5 |
| 401358 -23 | HA-3-S6 |
| 401358 -24 | MW-23D-S3 |
| 401358 -25 | MW-23D-S4 |
| 401358 -26 | MW-23D-S5 |
| 401358 -27 | MW-23D-S6 |
| 401358 -28 | MW-23D-DUP |
| 401358 -29 | HA-1-GW |
| 401358 -30 | HA-2-GW |
| 401358 -31 | HA-3-GW |
| 401358 -32 | Dup-01 |

Samples HA-1-S2, HA-1-S4, HA-1-S6, HA-1-DUP, HA-2-S3, HA-2-S5, HA-2-S7, MW-23D-S4, MW-23D-S6, and MW-23D-DUP were sent to Fremont Analytical for total organic carbon analysis. In addition, samples HA-1-S6, HA-1-DUP, HA-2-S7, HA-3-S6, and MW-23D-S6 were sent to Fremont Analytical for EPH and VPH analyses. The reports are enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

Several 8260D compounds exceeded the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

The 8260D samples HA-2-S9, HA-2-S10, and MW-23D-S5 were analyzed outside of the holding time. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> Laboratory ID | <u>% Moisture</u> |
|-----------------------------------|-------------------|
| HA-1-S1 401358-01 | 2 |
| HA-1-S2 401358-02 | 4 |
| HA-1-S3 401358-03 | 13 |
| HA-1-S4 401358-04 | 16 |
| HA-1-S6 401358-06 | 10 |
| HA-1-DUP 401358-07 | 11 |
| HA-2-S1.5 401358-08 | 6 |
| HA-2-S2 401358-09 | 4 |
| HA-2-S3 401358-10 | 3 |
| HA-2-S4 401358-11 | 13 |
| HA-2-S5 401358-12 | 21 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| HA-2-S7 401358-14 | 11 |
| HA-2-S8 401358-15 | 10 |
| HA-2-S9 401358-16 | 13 |
| HA-2-S10 401358-17 | 18 |
| HA-3-S1 401358-18 | 6 |
| HA-3-S2 401358-19 | 7 |
| HA-3-S3 401358-20 | 8 |
| HA-3-S4 401358-21 | 23 |
| HA-3-S6 401358-23 | 8 |
| MW-23D-S3 401358-24 | 17 |
| MW-23D-S4 401358-25 | 18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|-------------------------|-------------------|
| Laboratory ID | |
| MW-23D-S5 401358-26 | 6 |
| MW-23D-S6 401358-27 | 11 |
| MW-23D-DUP 401358-28 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| HA-1-S1 401358-01 | <5 | 90 |
| HA-1-S2 401358-02 | <5 | 96 |
| HA-1-S3 401358-03 | <5 | 91 |
| HA-1-S4 401358-04 | <5 | 95 |
| HA-1-S6 401358-06 1/50 | 2,000 | 103 |
| HA-1-DUP 401358-07 1/20 | 1,000 | 107 |
| HA-2-S1.5 401358-08 | <5 | 95 |
| HA-2-S2 401358-09 | <5 | 96 |
| HA-2-S3 401358-10 | <5 | 92 |
| HA-2-S4 401358-11 | <5 | 96 |
| HA-2-S5 401358-12 | <5 | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| HA-2-S7 401358-14 1/100 | 17,000 | 114 |
| HA-2-S8 401358-15 | 6.4 | 136 |
| HA-3-S1 401358-18 | <5 | 92 |
| HA-3-S2 401358-19 | <5 | 96 |
| HA-3-S3 401358-20 | <5 | 90 |
| HA-3-S4 401358-21 | <5 | 97 |
| HA-3-S6 401358-23 1/100 | 11,000 | 137 |
| MW-23D-S3 401358-24 | <5 | 93 |
| MW-23D-S4 401358-25 | <5 | 90 |
| MW-23D-S6 401358-27 1/20 | 1,100 | 117 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-23D-DUP 401358-28 1/50 | 1,000 | 103 |
| Method Blank 04-0188 MB | <5 | 132 |
| Method Blank 04-189 MB | <5 | 94 |
| Method Blank 04-193 MB | <5 | 129 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24

Date Analyzed: 01/30/24 and 01/31/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-2-S9 401358-16 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 87 |
| HA-2-S10 401358-17 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 85 |
| MW-23D-S5 401358-26 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 87 |
| Method Blank 04-0188 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 110 |
| Method Blank 04-189 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/31/24

Date Analyzed: 01/31/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-1-GW 401358-29 | <1 | 1.8 | <1 | <3 | <100 | 85 |
| HA-2-GW 401358-30 | 1.0 | 2.2 | <1 | 5.0 | 900 | 85 |
| HA-3-GW 401358-31 | <1 | <1 | <1 | <3 | <100 | 88 |
| Dup-01 401358-32 | <1 | <1 | <1 | <3 | <100 | 86 |
| Method Blank 04-0191 MB | <1 | <1 | <1 | <3 | <100 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-1-S1 401358-01 | <50 | <250 | 99 |
| HA-1-S2 401358-02 | <50 | <250 | 96 |
| HA-1-S3 401358-03 | <50 | <250 | 101 |
| HA-1-S4 401358-04 | <50 | <250 | 97 |
| HA-1-S6 401358-06 | <50 | <250 | 106 |
| HA-1-DUP 401358-07 | <50 | <250 | 107 |
| HA-2-S1.5 401358-08 | <50 | <250 | 101 |
| HA-2-S2 401358-09 | <50 | <250 | 103 |
| HA-2-S3 401358-10 | <50 | <250 | 102 |
| HA-2-S4 401358-11 | <50 | <250 | 102 |
| HA-2-S5 401358-12 | <50 | <250 | 105 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-2-S7 401358-14 | 1,400 x | <250 | 107 |
| HA-2-S8 401358-15 | <50 | <250 | 91 |
| HA-2-S9 401358-16 | <50 | <250 | 91 |
| HA-2-S10 401358-17 | <50 | <250 | 94 |
| HA-3-S1 401358-18 | <50 | <250 | 98 |
| HA-3-S2 401358-19 | <50 | <250 | 97 |
| HA-3-S3 401358-20 | <50 | <250 | 100 |
| HA-3-S4 401358-21 | <50 | <250 | 103 |
| HA-3-S6 401358-23 | 340 x | <250 | 98 |
| MW-23D-S3 401358-24 | <50 | <250 | 94 |
| MW-23D-S4 401358-25 | <50 | <250 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-23D-S5 401358-26 | <50 | <250 | 93 |
| MW-23D-S6 401358-27 | 230 x | <250 | 104 |
| MW-23D-DUP 401358-28 | 65 x | <250 | 101 |
| Method Blank 04-259 MB | <50 | <250 | 92 |
| Method Blank 04-257 MB2 | <50 | <250 | 101 |
| Method Blank 04-287 MB | <50 | <250 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| HA-1-GW 401358-29 1/1.2 | <60 | <300 | 93 |
| HA-2-GW 401358-30 | 390 x | <250 | 93 |
| HA-3-GW 401358-31 1/1.2 | <60 | <300 | 83 |
| Dup-01 401358-32 1/1.2 | <60 | <300 | 82 |
| Method Blank 04-0251 MB2 | <50 | <250 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-01 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-01.041 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.48 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-02 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-02.119 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.40 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-03 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-03.120 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.28 |
| Lead | 1.93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-04 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-04.121 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.65 |
| Lead | 2.25 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-06 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-06.122 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.79 |
| Lead | 1.55 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-07 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-07.123 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.84 |
| Lead | 1.59 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-08 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-08.124 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.47 |
| Lead | 2.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-09 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-09.125 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.49 |
| Lead | 1.25 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-10 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-10.135 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.83 |
| Lead | 1.23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-11 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-11.136 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.72 |
| Lead | 2.14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-12 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-12.137 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 7.76 |
| Lead | 6.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-14.138 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.86 |
| Lead | 1.82 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 |
| Date Analyzed: | 02/01/24 | Data File: | 401358-15.153 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.73 |
| Lead | 1.86 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-18 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-18.148 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.55 |
| Lead | 1.21 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-19 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-19.149 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.38 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-20 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-20.150 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.26 |
| Lead | 2.03 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-21 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-21.151 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.58 |
| Lead | 2.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-23.162 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.22 |
| Lead | 1.73 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-24 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-24.163 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 5.40 |
| Lead | 3.16 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-25 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-25.164 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.78 |
| Lead | 3.69 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-27 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-27.171 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.09 |
| Lead | 3.39 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-28 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-28.177 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.67 |
| Lead | 3.10 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | I4-67 mb |
| Date Analyzed: | 01/30/24 | Data File: | I4-67 mb.039 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | I4-68 mb |
| Date Analyzed: | 01/30/24 | Data File: | I4-68 mb.115 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | I4-80 mb |
| Date Analyzed: | 02/01/24 | Data File: | I4-80 mb.100 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-1-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-01 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013127.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0014 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0064 |
| Hexane | <0.25 | o-Xylene | 0.0023 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0036 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-1-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-02 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013128.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0019 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0085 |
| Hexane | <0.25 | o-Xylene | 0.0020 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0042 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-03 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013129.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0019 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-04 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013130.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 114 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0014 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-06 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 86 | 114 |
| Toluene-d8 | 98 | 86 | 115 |
| 4-Bromofluorobenzene | 105 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.32 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 1.3 |
| Hexane | <0.25 | o-Xylene | 0.56 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 0.11 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 0.26 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 1.0 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.98 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.53 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-07 |
| Date Analyzed: | 01/31/24 | Data File: | 013115.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 86 | 86 | 114 |
| Toluene-d8 | 122 ip | 86 | 115 |
| 4-Bromofluorobenzene | 98 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.035 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 69 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 240 ve |
| Hexane | 8.9 | o-Xylene | 120 ve |
| Methylene chloride | <0.5 | Styrene | 3.6 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 8.3 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 34 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 66 ve |
| Chloroform | 0.56 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 120 ve |
| Benzene | 0.13 | sec-Butylbenzene | 4.0 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 1.9 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 120 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 43 ve |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-07 1/50 |
| Date Analyzed: | 02/01/24 | Data File: | 020113.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 86 | 114 |
| Toluene-d8 | 104 | 86 | 115 |
| 4-Bromofluorobenzene | 107 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 100 |
| Ethylbenzene | 63 |
| m,p-Xylene | 260 |
| o-Xylene | 94 |
| n-Propylbenzene | 28 |
| 1,3,5-Trimethylbenzene | 56 |
| 1,2,4-Trimethylbenzene | 190 |
| Naphthalene | 35 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-08 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013131.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 100 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-09 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013132.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 99 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0042 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0027 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-10 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013133.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0010 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0049 |
| Hexane | <0.25 | o-Xylene | 0.0016 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0034 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-11 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013134.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0027 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0057 |
| Hexane | <0.25 | o-Xylene | 0.0019 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0035 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-12 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013135.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 110 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-14 |
| Date Analyzed: | 01/31/24 | Data File: | 013118.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 86 | 114 |
| Toluene-d8 | 136 ip | 86 | 115 |
| 4-Bromofluorobenzene | 115 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.037 |
| Vinyl chloride | <0.05 | Dibromochloromethane | 0.10 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 120 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 400 ve |
| Hexane | 49 ve | o-Xylene | 250 ve |
| Methylene chloride | <0.5 | Styrene | 8.7 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 18 ve |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 73 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 110 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 180 ve |
| Benzene | 1.5 | sec-Butylbenzene | 8.5 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 3.9 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | 5.0 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 250 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 75 ve |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-14 1/500 |
| Date Analyzed: | 02/01/24 | Data File: | 020114.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 86 | 114 |
| Toluene-d8 | 97 | 86 | 115 |
| 4-Bromofluorobenzene | 108 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 430 |
| Ethylbenzene | 180 |
| m,p-Xylene | 800 |
| o-Xylene | 330 |
| Isopropylbenzene | <25 |
| n-Propylbenzene | 79 |
| 1,3,5-Trimethylbenzene | 130 |
| 1,2,4-Trimethylbenzene | 460 |
| Naphthalene | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 1/0.5 |
| Date Analyzed: | 02/01/24 | Data File: | 020118.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0022 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 ca | Ethylbenzene | 0.12 |
| Acetone | <5 k | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.46 |
| Hexane | <0.25 | o-Xylene | 0.16 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.051 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 k | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.22 |
| Benzene | 0.013 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.45 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.18 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 k | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S9 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-16 1/0.5 |
| Date Analyzed: | 02/23/24 11:21 | Data File: | 022312.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 89 | 84 | 120 |
| Toluene-d8 | 92 | 73 | 128 |
| 4-Bromofluorobenzene | 104 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S10 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-17 1/0.5 |
| Date Analyzed: | 02/23/24 10:58 | Data File: | 022311.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 84 | 120 |
| Toluene-d8 | 92 | 73 | 128 |
| 4-Bromofluorobenzene | 104 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S5 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-26 1/0.5 |
| Date Analyzed: | 02/23/24 10:34 | Data File: | 022310.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 93 | 73 | 128 |
| 4-Bromofluorobenzene | 105 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-3-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-18 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013136.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-3-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-19 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013137.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0018 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-20 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013138.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 114 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0021 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0030 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-21 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013139.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 99 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-23 |
| Date Analyzed: | 01/31/24 | Data File: | 013119.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 86 | 114 |
| Toluene-d8 | 135 ip | 86 | 115 |
| 4-Bromofluorobenzene | 116 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.16 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 150 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 430 ve |
| Hexane | 260 ve | o-Xylene | 240 ve |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 25 ve |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 93 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 120 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 200 ve |
| Benzene | <0.03 | sec-Butylbenzene | 9.3 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 4.1 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 130 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 76 ve |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-23 1/500 |
| Date Analyzed: | 02/01/24 | Data File: | 020115.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 86 | 114 |
| Toluene-d8 | 100 | 86 | 115 |
| 4-Bromofluorobenzene | 107 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 160 |
| Hexane | 250 |
| Ethylbenzene | 280 |
| m,p-Xylene | 1,000 |
| o-Xylene | 350 |
| Isopropylbenzene | 29 |
| n-Propylbenzene | 97 |
| 1,3,5-Trimethylbenzene | 150 |
| 1,2,4-Trimethylbenzene | 520 |
| Naphthalene | 86 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-24 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013140.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 102 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-25 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013141.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-27 |
| Date Analyzed: | 01/31/24 | Data File: | 013116.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 86 | 114 |
| Toluene-d8 | 102 | 86 | 115 |
| 4-Bromofluorobenzene | 124 ip | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 4.6 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 18 |
| Hexane | 0.89 | o-Xylene | 3.4 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 0.81 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 3.4 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 7.2 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 16 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 0.33 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 5.2 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 4.6 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-28 |
| Date Analyzed: | 01/31/24 | Data File: | 013117.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 86 | 114 |
| Toluene-d8 | 101 | 86 | 115 |
| 4-Bromofluorobenzene | 113 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 3.3 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 13 |
| Hexane | 1.1 | o-Xylene | 2.7 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 0.57 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 2.6 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 5.1 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 9.8 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 0.22 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 2.9 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 3.6 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0243 mb 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013126.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 111 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0247 mb 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013125.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 04-0270 mb 1/0.5 |
| Date Analyzed: | 02/01/24 | Data File: | 020110.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 110 | 79 | 128 |
| Toluene-d8 | 100 | 84 | 121 |
| 4-Bromofluorobenzene | 106 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 ca | Ethylbenzene | <0.001 |
| Acetone | <5 k | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 k | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 k | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 04-0384 mb 1/0.5 |
| Date Analyzed: | 02/23/24 | Data File: | 022309.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 84 | 120 |
| Toluene-d8 | 103 | 73 | 128 |
| 4-Bromofluorobenzene | 106 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | HA-1-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-29 |
| Date Analyzed: | 01/31/24 | Data File: | 013113.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 104 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | HA-2-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-30 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0246 mb |
| Date Analyzed: | 01/31/24 | Data File: | 013109.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 78 | 126 |
| Toluene-d8 | 90 | 84 | 115 |
| 4-Bromofluorobenzene | 105 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-01 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013113.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 10 | 198 |
| 2-Fluorobiphenyl | 98 | 45 | 117 |
| 2,4,6-Tribromophenol | 108 | 11 | 158 |
| Terphenyl-d14 | 103 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-02 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013011.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 10 | 198 |
| 2-Fluorobiphenyl | 85 | 45 | 117 |
| 2,4,6-Tribromophenol | 83 | 11 | 158 |
| Terphenyl-d14 | 88 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-03 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 86 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-04 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013115.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 65 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 81 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-06 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013116.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 87 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.29 |
| 2-Methylnaphthalene | 1.2 |
| 1-Methylnaphthalene | 0.60 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.037 |
| Anthracene | 0.018 |
| Fluoranthene | <0.01 |
| Pyrene | 0.011 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-07 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013117.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 87 | 11 | 158 |
| Terphenyl-d14 | 80 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.35 |
| 2-Methylnaphthalene | 1.0 |
| 1-Methylnaphthalene | 0.46 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.025 |
| Anthracene | 0.012 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-08 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013016.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 | 10 | 198 |
| 2-Fluorobiphenyl | 75 | 45 | 117 |
| 2,4,6-Tribromophenol | 79 | 11 | 158 |
| Terphenyl-d14 | 77 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | 0.17 |
| Pyrene | 0.32 |
| Benz(a)anthracene | 0.16 |
| Chrysene | 0.24 |
| Benzo(a)pyrene | 0.26 |
| Benzo(b)fluoranthene | 0.41 |
| Benzo(k)fluoranthene | 0.14 |
| Indeno(1,2,3-cd)pyrene | 0.17 |
| Dibenz(a,h)anthracene | 0.049 |
| Benzo(g,h,i)perylene | 0.13 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-09 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013118.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 10 | 198 |
| 2-Fluorobiphenyl | 68 | 45 | 117 |
| 2,4,6-Tribromophenol | 79 | 11 | 158 |
| Terphenyl-d14 | 76 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-10 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013119.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 61 | 10 | 198 |
| 2-Fluorobiphenyl | 70 | 45 | 117 |
| 2,4,6-Tribromophenol | 84 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-11 1/5 |
| Date Analyzed: | 02/01/24 | Data File: | 020116.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 89 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.010 |
| 2-Methylnaphthalene | 0.18 |
| 1-Methylnaphthalene | 0.097 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-12 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013010.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 16 | 137 |
| 2-Fluorobiphenyl | 76 | 46 | 122 |
| 2,4,6-Tribromophenol | 79 | 17 | 154 |
| Terphenyl-d14 | 74 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013011.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 16 | 137 |
| 2-Fluorobiphenyl | 72 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 69 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 24 ve |
| 2-Methylnaphthalene | 27 ve |
| 1-Methylnaphthalene | 13 ve |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.21 |
| Anthracene | 0.12 |
| Fluoranthene | 0.036 |
| Pyrene | 0.052 |
| Benz(a)anthracene | 0.050 |
| Chrysene | 0.019 |
| Benzo(a)pyrene | 0.022 |
| Benzo(b)fluoranthene | 0.012 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | 0.014 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 1/250 |
| Date Analyzed: | 02/01/24 | Data File: | 020117.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 105 d | 10 | 198 |
| 2-Fluorobiphenyl | 80 d | 45 | 117 |
| 2,4,6-Tribromophenol | 184 d | 11 | 158 |
| Terphenyl-d14 | 75 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| Naphthalene | 43 |
| 2-Methylnaphthalene | 42 |
| 1-Methylnaphthalene | 18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 1/5 |
| Date Analyzed: | 02/02/24 | Data File: | 020140.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 84 | 16 | 137 |
| 2-Fluorobiphenyl | 84 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 81 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.019 |
| 2-Methylnaphthalene | 0.029 |
| 1-Methylnaphthalene | 0.010 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-18 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013012.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 16 | 137 |
| 2-Fluorobiphenyl | 65 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 67 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-19 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013013.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 55 | 16 | 137 |
| 2-Fluorobiphenyl | 63 | 46 | 122 |
| 2,4,6-Tribromophenol | 72 | 17 | 154 |
| Terphenyl-d14 | 66 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-20 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013014.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 | 16 | 137 |
| 2-Fluorobiphenyl | 72 | 46 | 122 |
| 2,4,6-Tribromophenol | 80 | 17 | 154 |
| Terphenyl-d14 | 72 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-21 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013015.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 16 | 137 |
| 2-Fluorobiphenyl | 69 | 46 | 122 |
| 2,4,6-Tribromophenol | 75 | 17 | 154 |
| Terphenyl-d14 | 68 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013016.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 16 | 137 |
| 2-Fluorobiphenyl | 71 | 46 | 122 |
| 2,4,6-Tribromophenol | 83 | 17 | 154 |
| Terphenyl-d14 | 70 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 4.7 |
| 2-Methylnaphthalene | 11 ve |
| 1-Methylnaphthalene | 4.8 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.11 |
| Anthracene | 0.062 |
| Fluoranthene | 0.021 |
| Pyrene | 0.028 |
| Benz(a)anthracene | 0.028 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | 0.011 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 1/50 |
| Date Analyzed: | 02/01/24 | Data File: | 020118.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 d | 10 | 198 |
| 2-Fluorobiphenyl | 86 d | 45 | 117 |
| 2,4,6-Tribromophenol | 95 d | 11 | 158 |
| Terphenyl-d14 | 90 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| 2-Methylnaphthalene | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-24 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013017.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 53 | 16 | 137 |
| 2-Fluorobiphenyl | 62 | 46 | 122 |
| 2,4,6-Tribromophenol | 64 | 17 | 154 |
| Terphenyl-d14 | 63 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.010 |
| 2-Methylnaphthalene | 0.026 |
| 1-Methylnaphthalene | 0.011 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-25 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013018.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 16 | 137 |
| 2-Fluorobiphenyl | 66 | 46 | 122 |
| 2,4,6-Tribromophenol | 67 | 17 | 154 |
| Terphenyl-d14 | 64 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-27 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013019.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 16 | 137 |
| 2-Fluorobiphenyl | 76 | 46 | 122 |
| 2,4,6-Tribromophenol | 83 | 17 | 154 |
| Terphenyl-d14 | 71 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.49 |
| 2-Methylnaphthalene | 0.60 |
| 1-Methylnaphthalene | 0.25 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | 0.020 |
| Phenanthrene | 0.030 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-28 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013020.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 16 | 137 |
| 2-Fluorobiphenyl | 71 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 68 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.35 |
| 2-Methylnaphthalene | 0.42 |
| 1-Methylnaphthalene | 0.18 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | 0.013 |
| Phenanthrene | 0.020 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 04-0260 mb 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013108.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 88 | 10 | 198 |
| 2-Fluorobiphenyl | 95 | 45 | 117 |
| 2,4,6-Tribromophenol | 93 | 11 | 158 |
| Terphenyl-d14 | 102 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 04-0253 mb2 1/5 |
| Date Analyzed: | 02/01/24 | Data File: | 020109.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 104 | 10 | 198 |
| 2-Fluorobiphenyl | 107 | 45 | 117 |
| 2,4,6-Tribromophenol | 108 | 11 | 158 |
| Terphenyl-d14 | 108 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 04-0263 mb2 1/5 |
| Date Analyzed: | 02/02/24 | Data File: | 020139.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 94 | 16 | 137 |
| 2-Fluorobiphenyl | 91 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 87 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/31/24

Date Analyzed: 01/31/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| HA-1-GW 401358-29 | 1,200 |
| HA-2-GW 401358-30 | 1,200 |
| HA-3-GW 401358-31 | 8,300 |
| Dup-01 401358-32 | 7,200 |
| Method Blank I4-0069 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 401389-42 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|----------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Gasoline | mg/kg (ppm) | 40 | 8.9 | 88 b | 90 b | 50-150 | 2 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | mg/kg (ppm) | 40 | 112 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401331-31 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 1.0 | <0.04 | 69 | 70 | 50-150 | 1 |
| Toluene | mg/kg (ppm) | 1.0 | <0.04 | 68 | 70 | 50-150 | 3 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | <0.04 | 67 | 71 | 50-150 | 6 |
| Xylenes | mg/kg (ppm) | 3.0 | <0.12 | 67 | 73 | 50-150 | 9 |
| Gasoline | mg/kg (ppm) | 40 | <10 | 68 | 70 | 50-150 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 92 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 97 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 100 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 107 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401350-31 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 1.0 | <0.02 | 83 | 86 | 50-150 | 4 |
| Toluene | mg/kg (ppm) | 1.0 | <0.02 | 79 | 81 | 50-150 | 2 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | <0.02 | 76 | 78 | 50-150 | 3 |
| Xylenes | mg/kg (ppm) | 3.0 | <0.06 | 77 | 77 | 50-150 | 0 |
| Gasoline | mg/kg (ppm) | 40 | <5 | 97 | 92 | 50-150 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 97 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 95 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 89 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 87 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401358-29 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | 1.8 | 1.8 | 0 |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 102 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 96 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 90 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401331-31 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 200 | 108 | 110 | 64-136 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 100 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401358-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 110 | 116 | 64-136 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 110 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401358-15 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 84 | 84 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 84 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 100 | 65-151 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401358-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 100 | 95 | 75-125 | 5 |
| Lead | mg/kg (ppm) | 50 | <5 | 96 | 94 | 75-125 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 98 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401358-27 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 113 | 99 | 75-125 | 13 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 97 | 75-125 | 7 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 97 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 99 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402008-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 102 | 99 | 75-125 | 3 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 103 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 94 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 68 | 68 | 10-142 | 0 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 93 | 98 | 10-126 | 5 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 93 | 97 | 10-138 | 4 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 94 | 90 | 10-163 | 4 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 93 | 89 | 10-176 | 4 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 98 | 94 | 10-176 | 4 |
| Acetone | mg/kg (ppm) | 10 | <5 | 99 | 93 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 101 | 100 | 10-160 | 1 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 107 | 104 | 10-137 | 3 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 95 | 93 | 10-156 | 2 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 102 | 105 | 21-145 | 3 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 101 | 98 | 14-137 | 3 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 109 | 10-158 | 2 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 97 | 99 | 25-135 | 2 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 101 | 99 | 19-147 | 2 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 110 | 107 | 12-160 | 3 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 10-156 | 0 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 17-140 | 2 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 103 | 105 | 9-164 | 2 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 100 | 100 | 29-129 | 0 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 99 | 101 | 21-139 | 2 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 101 | 100 | 30-135 | 1 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 23-155 | 2 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 99 | 99 | 23-145 | 0 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 102 | 101 | 24-155 | 1 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 104 | 107 | 28-144 | 3 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 97 | 102 | 35-130 | 5 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 26-149 | 3 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 106 | 108 | 10-205 | 2 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 98 | 102 | 15-166 | 4 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 106 | 31-137 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 103 | 101 | 20-133 | 2 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 103 | 107 | 28-150 | 4 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 104 | 106 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 102 | 32-129 | 2 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 103 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 100 | 106 | 31-143 | 6 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 101 | 103 | 34-136 | 2 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 99 | 100 | 33-134 | 1 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 102 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 104 | 109 | 21-156 | 5 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 23-146 | 3 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 108 | 107 | 34-130 | 1 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 105 | 18-149 | 1 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 110 | 104 | 28-140 | 6 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 110 | 110 | 25-144 | 0 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 102 | 31-134 | 1 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 31-136 | 0 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 30-137 | 2 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 106 | 23-145 | 0 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 106 | 21-149 | 1 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 101 | 30-131 | 1 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 29-129 | 2 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 101 | 31-132 | 1 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 104 | 102 | 11-161 | 2 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 105 | 103 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 118 | 111 | 10-142 | 6 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 14-157 | 2 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 107 | 107 | 20-144 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 76 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 92 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 98 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 92 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 94 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 91 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 102 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 97 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 100 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 99 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 100 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 95 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 98 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 82 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 103 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 96 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 101 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 96 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 94 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 95 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 103 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 95 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 99 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 101 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 96 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 101 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 102 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 97 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 102 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 100 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 103 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 99 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 96 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 99 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 101 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 99 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 98 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 98 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 98 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 106 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 110 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 114 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 104 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 107 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 106 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 109 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 107 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 111 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 107 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 118 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 106 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 111 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-24 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 100 | 103 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 120 | 125 | 10-126 | 4 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 119 | 118 | 10-138 | 1 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 101 | 100 | 10-163 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 99 | 100 | 10-176 | 1 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 109 | 109 | 10-176 | 0 |
| Acetone | mg/kg (ppm) | 10 | <5 | 119 | 131 | 10-163 | 10 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 121 | 119 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 133 | 125 | 10-137 | 6 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 123 | 121 | 10-156 | 2 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 135 | 138 | 21-145 | 2 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 127 | 130 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 135 | 133 | 19-140 | 1 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 133 | 138 | 10-158 | 4 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 131 | 130 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 132 | 132 | 21-145 | 0 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 142 | 143 | 19-147 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 141 | 140 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 129 | 132 | 10-156 | 2 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 134 | 128 | 17-140 | 5 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 139 | 136 | 9-164 | 2 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 132 vo | 130 vo | 29-129 | 2 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 128 | 128 | 21-139 | 0 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 134 | 133 | 30-135 | 1 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 140 | 139 | 23-155 | 1 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 130 | 129 | 23-145 | 1 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 139 | 138 | 24-155 | 1 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 142 | 139 | 28-144 | 2 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 138 vo | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 140 | 146 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 145 | 150 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <0.5 | 143 | 144 | 15-166 | 1 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 142 vo | 148 vo | 31-137 | 4 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 135 vo | 133 | 20-133 | 1 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 138 | 143 | 28-150 | 4 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 141 | 143 vo | 28-142 | 1 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 140 vo | 32-129 | 4 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 139 vo | 142 vo | 32-137 | 2 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 138 | 139 | 31-143 | 1 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 138 vo | 139 vo | 34-136 | 1 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 138 vo | 33-134 | 2 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 140 vo | 143 vo | 35-137 | 2 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 137 | 137 | 31-142 | 0 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 141 | 146 | 21-156 | 3 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 146 | 141 | 23-146 | 3 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 146 vo | 143 vo | 34-130 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 147 | 143 | 18-149 | 3 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 149 vo | 146 vo | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 157 vo | 153 vo | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 143 vo | 140 vo | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 145 vo | 142 vo | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 141 vo | 139 vo | 30-137 | 1 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 146 | 141 | 10-182 | 3 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 148 vo | 140 | 23-145 | 6 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 148 | 142 | 21-149 | 4 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 134 vo | 134 vo | 30-131 | 0 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 141 vo | 138 vo | 29-129 | 2 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 139 vo | 139 vo | 31-132 | 0 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 146 | 148 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 138 | 139 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 151 vo | 147 vo | 10-142 | 3 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 142 | 140 | 14-157 | 1 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 144 | 142 | 20-144 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|----------------------|---------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 107 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 107 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 102 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 99 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 102 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 102 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 111 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 112 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 99 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 112 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 103 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 109 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 110 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 108 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 107 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 113 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 107 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 109 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 111 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 105 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 101 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 107 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 112 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 107 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 113 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 110 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 110 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 116 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 120 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 120 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 111 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 114 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 119 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 110 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 114 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 115 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 112 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 110 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 112 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 111 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 119 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 113 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 116 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 115 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 117 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 123 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 112 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 115 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 111 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 114 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 115 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 114 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 109 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 112 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 110 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 116 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 112 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 120 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 113 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 115 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-15 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 71 | 69 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 98 | 96 | 10-126 | 2 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 95 | 90 | 10-138 | 5 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 87 | 80 | 10-163 | 8 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 83 | 75 | 10-176 | 10 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 89 | 86 | 10-176 | 3 |
| Acetone | mg/kg (ppm) | 10 | <5 | 91 | 88 | 10-163 | 3 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 96 | 10-160 | 4 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 104 | 103 | 10-137 | 1 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 96 | 90 | 10-156 | 6 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 21-145 | 3 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 96 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 99 | 19-140 | 4 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 109 | 98 | 10-158 | 11 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 95 | 25-135 | 5 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 103 | 100 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 105 | 101 | 19-147 | 4 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 109 | 105 | 12-160 | 4 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 97 | 10-156 | 4 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 100 | 101 | 17-140 | 1 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 105 | 104 | 9-164 | 1 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 102 | 98 | 29-129 | 4 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 98 | 95 | 21-139 | 3 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 102 | 100 | 30-135 | 2 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 101 | 95 | 23-145 | 6 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 106 | 102 | 24-155 | 4 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 110 | 104 | 28-144 | 6 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 105 | 102 | 35-130 | 3 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 109 | 108 | 26-149 | 1 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 112 | 109 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 105 | 104 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 115 | 107 | 31-137 | 7 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 103 | 102 | 20-133 | 1 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 28-150 | 0 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 28-142 | 0 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 101 | 32-129 | 5 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 107 | 105 | 32-137 | 2 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 107 | 100 | 31-143 | 7 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 105 | 102 | 34-136 | 3 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 106 | 98 | 33-134 | 8 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 109 | 108 | 21-156 | 1 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 107 | 23-146 | 2 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 107 | 34-130 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 109 | 109 | 18-149 | 0 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 109 | 110 | 28-140 | 1 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 113 | 117 | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 106 | 106 | 31-134 | 0 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 109 | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 102 | 30-137 | 3 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 104 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 108 | 109 | 23-145 | 1 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 108 | 110 | 21-149 | 2 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 30-131 | 0 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 105 | 29-129 | 0 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 103 | 31-132 | 1 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 108 | 105 | 11-161 | 3 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 104 | 105 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 112 | 117 | 10-142 | 4 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 105 | 106 | 14-157 | 1 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 107 | 106 | 20-144 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|----------------------|---------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 108 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 107 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 95 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 94 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 95 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 97 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 107 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 106 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 101 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 115 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 107 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 110 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 118 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 107 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 111 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 94 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 116 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 107 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 108 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 113 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 108 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 105 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 106 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 113 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 105 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 109 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 112 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 106 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 117 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 118 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 118 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 107 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 115 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 112 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 107 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 110 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 112 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 107 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 108 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 112 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 108 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 116 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 109 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 111 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 112 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 115 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 119 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 109 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 108 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 108 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 110 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 111 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 107 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 114 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 109 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 115 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 110 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 111 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 402324-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 69 | 73 | 10-138 | 6 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 70 | 70 | 10-176 | 0 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 80 | 83 | 10-160 | 4 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 82 | 85 | 10-156 | 4 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 79 | 81 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 81 | 85 | 19-140 | 5 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 81 | 84 | 25-135 | 4 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 83 | 86 | 12-160 | 4 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 83 | 87 | 10-156 | 5 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 83 | 84 | 21-139 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 81 | 86 | 20-133 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------------------|--------------------|----------------|----------------------------|------------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | 74 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2 | 79 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 87 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2 | 87 | 10-184 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 85 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 87 | 64-135 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 84 | 64-135 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 90 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 90 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2 | 85 | 63-139 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 88 | 68-128 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401372-08 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|--------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 103 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 102 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 94 | 35-149 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Vinyl chloride | ug/L (ppb) | 10 | 105 | 90 | 64-142 | 15 |
| Chloroethane | ug/L (ppb) | 10 | 104 | 92 | 70-130 | 12 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 97 | 86 | 64-140 | 12 |
| Methylene chloride | ug/L (ppb) | 10 | 103 | 90 | 43-134 | 13 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 102 | 90 | 70-130 | 12 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 104 | 93 | 70-130 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 103 | 90 | 70-130 | 13 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 102 | 97 | 70-130 | 5 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 97 | 87 | 70-130 | 11 |
| Trichloroethene | ug/L (ppb) | 10 | 94 | 88 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 102 | 95 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401329-12 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 74 | 78 | 28-125 | 5 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 83 | 10-192 | 2 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 79 | 10-163 | 1 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 84 | 45-128 | 6 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 76 | 81 | 36-125 | 6 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 85 | 48-121 | 5 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 76 | 84 | 46-122 | 10 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 88 | 30-144 | 11 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 93 | 50-150 | 9 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 40-134 | 1 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 87 | 50-150 | 7 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 88 | 50-150 | 6 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 97 | 50-150 | 6 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 89 | 50-150 | 6 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 95 | 50-150 | 5 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 91 | 40-140 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 86 | 41-136 | 7 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 79 | 29-139 | 5 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 87 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 95 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 90 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 90 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 95 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 103 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 88 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 94 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 98 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 105 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 99 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 106 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 98 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 98 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 94 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401358-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 69 | 68 | 28-125 | 1 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 73 | 74 | 10-192 | 1 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 69 | 70 | 10-163 | 1 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 71 | 72 | 45-128 | 1 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 70 | 71 | 36-125 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 73 | 74 | 48-121 | 1 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 72 | 71 | 46-122 | 1 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 73 | 30-144 | 3 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 50-150 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 70 | 69 | 40-134 | 1 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 75 | 50-150 | 0 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 77 | 50-150 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 83 | 50-150 | 1 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 77 | 50-150 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 50-150 | 1 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 95 | 89 | 40-140 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 88 | 41-136 | 3 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 85 | 29-139 | 2 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 73 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 78 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 74 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 77 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 76 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 79 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 77 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 79 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 83 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 73 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 79 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 82 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 87 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 80 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 86 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 94 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 94 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 91 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 85 | 84 | 57-107 | 1 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 93 | 93 | 63-112 | 0 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 88 | 88 | 63-113 | 0 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 89 | 89 | 70-130 | 0 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 88 | 87 | 66-112 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | 93 | 92 | 67-117 | 1 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 85 | 87 | 70-130 | 2 |
| Anthracene | mg/kg (ppm) | 0.83 | 88 | 90 | 70-130 | 2 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 96 | 97 | 70-130 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | 83 | 83 | 70-130 | 0 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 89 | 91 | 70-130 | 2 |
| Chrysene | mg/kg (ppm) | 0.83 | 91 | 93 | 70-130 | 2 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 100 | 102 | 68-120 | 2 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 95 | 96 | 67-128 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 98 | 100 | 70-130 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 103 | 96 | 67-129 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 97 | 91 | 67-128 | 6 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 93 | 86 | 65-130 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 98 | 96 | 35-146 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Page # 1 of 1

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email HGood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey Marine

PO #

0704475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

ANALYSES REQUESTED

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | EDB, EDC, MTBE | Lead, Arsenic | TOC | EPH/VPH | |
|-----------|--------|--------------|--------------|-------------|-----------|----------|----------|---------------|------------|---------------|---------------|---------------|----------------|---------------|-----|---------|--|
| HA-1-51 | 01 A-F | 1/26 | 0915 | S | 6 | X | X | | | X | X | | X | X | | | X per HG 1/29/24 ME Notes A-per HG 01/31/24 ME |
| HA-1-52 | 02 | | 0935 1045 | | | X | X | | | X | X | | X | X | X | | Hold for |
| HA-1-53 | 03 | | 1045 1055 | | | X | X | | | X | X | | X | X | | | Analysis |
| HA-1-54 | 04 | | 1055 1105 | | | X | X | | | X | X | | X | X | X | | Provide |
| HA-1-55 | 05 | | 1105 1430 | | | Hold | | | | | | | | | | | chromatograms |
| HA-1-56 | 06 | | 1430 | | | X | X | | | X | X | | X | X | X | A | w/ TPH |
| HA-1-DUP | 07 | | 1500 | | | X | X | | | X | X | | X | X | X | A | analyses and |
| HA-2-51.5 | 08 | 1/24 | 1305 | | | X | X | | | X | X | | X | X | | | TPH prelims for |
| HA-2-52 | 09 | | 1320 | | | X | X | | | X | X | | X | X | | | possible EPH/ VPH follow-ups |
| HA-2-53 | 10 | | 1340 | | | X | X | | | X | X | | X | X | X | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|-----------------------|--------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Salcedo</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Young</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: _____ | | | | |
| Received by: _____ | | Sample received at <u>3</u> °C | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email H61000@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 2 of 4

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| Haley@haleyware.com | | | | | | ANALYSES REQUESTED | | | | | | | | | | | Notes | |
|---------------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|-----------------------|----------------|---------------|-------|-----|---|--|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | EPH/VPH PCBs-EPA-8082 | EDB, EDC, MTBE | Lead, Arsenic | cVOCs | TOC | | |
| HA-2-S4 | 11 A-F | 1/24 | 1445 | S | 6 | X | X | | | X | X | | X | X | | | Hold for | |
| HA-2-S5 | 12 | | 1455 | | | X | X | | | X | X | | X | X | | X | Analysis | |
| HA-2-S6 | 13 | | 1505 | | | Hold | | | | | | | | | | | Provide chromatograms w/ TPH analyses and TPH prelims for possible EPH/VPH follow-ups | |
| HA-2-S7 | 14 | 1/25 | 1045 | | | X | X | | | X | X | A | X | X | | X | | |
| HA-2-S8 | 15 | | 1055 | | | Hold A A A A | | | | | | | | | | | | |
| HA-2-S9 | 16 | | 1500 | | | X | X | X | | | | | | | X | | | |
| HA-2-S10 | 17 | | 1510 | | | X | X | X | | | | | | | X | | | |
| HA-3-S1 | 18 | 1/23 | 1040 | | | X | X | | | X | X | | X | X | | | | |
| HA-3-S2 | 19 | | 1100 | | | X | X | | | X | X | | X | X | | | | |
| HA-3-S3 | 20 | | 1230 | | | X | X | | | X | X | | X | X | | | | |

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Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|-------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Jones</u> | <u>R&B</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: _____ | | | | |
| Received by: _____ | | Sample received at <u>3°C</u> | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email HGood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 3 of 34

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | | Notes |
|------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|--------------------------|----------------|-----|-------|-----|---------------|------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | EPH/VPH PCBs EPA 8082 | EDB, EDC, MTBE | TOC | cVOCs | TSS | Lead, Arsenic | |
| HA-3-54 | 21 A-F | ↓ | 1240 | S | 6 | X | X | | | X | X | | X | | | | | X <u>add for</u> |
| HA-3-55 | 22 | ↓ | 1250 | | | Hold | | | | | | | | | | | | <u>Analyse</u> |
| HA-3-56 | 23 | ↓ | 1640 | | | X | X | | | X | X | A | X | | | | | X |
| MW-23D-53 | 24 | 1/22 | 1200 | | | X | X | | | X | X | | X | | | | | X |
| MW-23D-54 | 25 | ↓ | 1210 | | | X | X | | | X | X | | X | X | | | | X |
| MW-23D-55 | 26 | ↓ | 1220 | | | X | X | X | | | | | | | X | | | |
| MW-23D-56 | 27 | ↓ | 1510 | | | X | X | | | X | X | A | X | X | | | | X |
| MW-23D-DUP | 28 ✓ | ↓ | 1530 | ↓ | ↓ | X | X | | | X | X | | X | X | | | | X |
| HA-1-GW | 29 A/H | 1/26 | 1200 | W | 8 | X | X | X | | | | | | | X | X | | |
| HA-2-GW | 30 A/H | 1/24 | 1600 | ↓ | 8 | X | X | X | | | | | | | X | X | | |

Provide chromatograms w/ TPH analyses and TPH prelims for possible EPH/VPH follow-ups

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Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|---------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Young</u> | <u>F&B</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>3</u> °C | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24

vw5/J5/C4/v#4 N3
Page # 4 of 4Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

PO #

Whidbey Marine0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

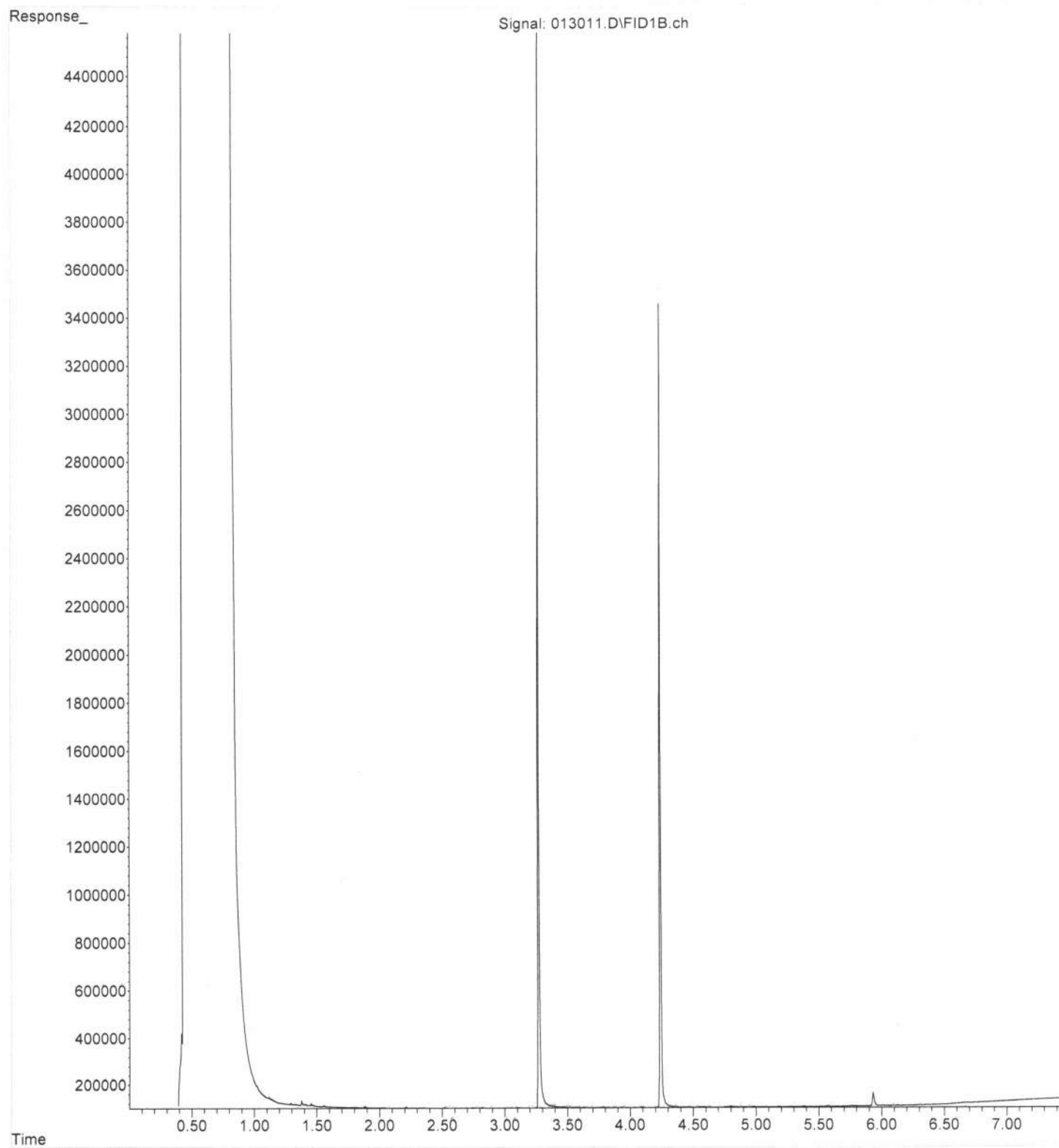
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|------------|---------------|---------------|---------------|-------------------------------------|--|--|--|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | TSS | | | |
| HA-3-GW | 31 A-G | 1/23 | 1400 | W | 8 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | <u>Hold for</u> |
| Dup-01 | 32 A-H | 1/23 | 1430 | W | 8 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | <u>Analysis</u> |
| | | | | | | | | | | | | | | | | Provide chromatograms w/ TPH analyses and TPH prelims for possible EPH/ VPH follow-ups |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|--------------------------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/24/24</u> | <u>0820</u> |
| Received by: <u>[Signature]</u> | <u>Euc [Signature]</u> | <u>FaB</u> | <u>1/24/24</u> | <u>0820</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>3°C</u> | | |

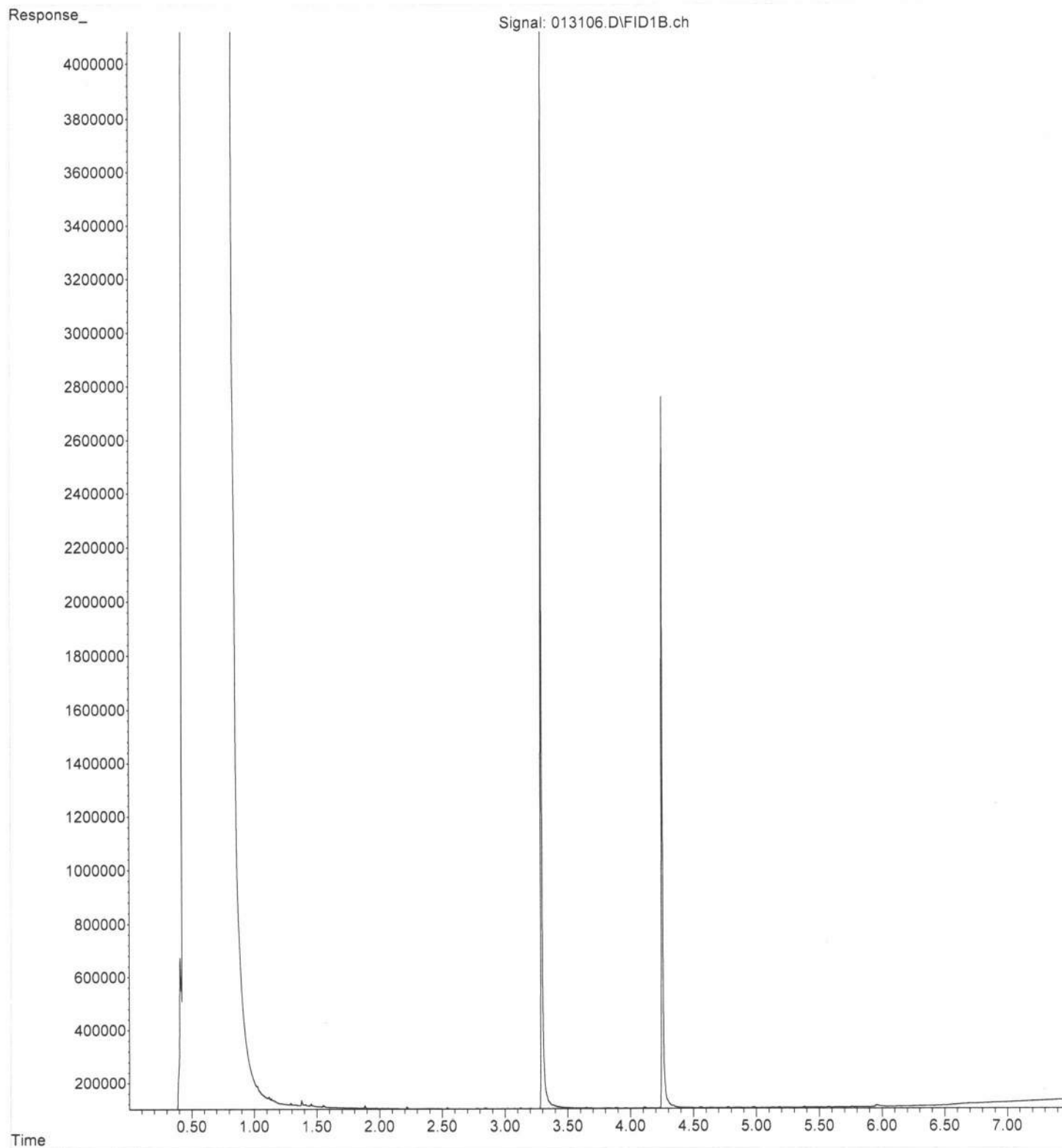
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ERR



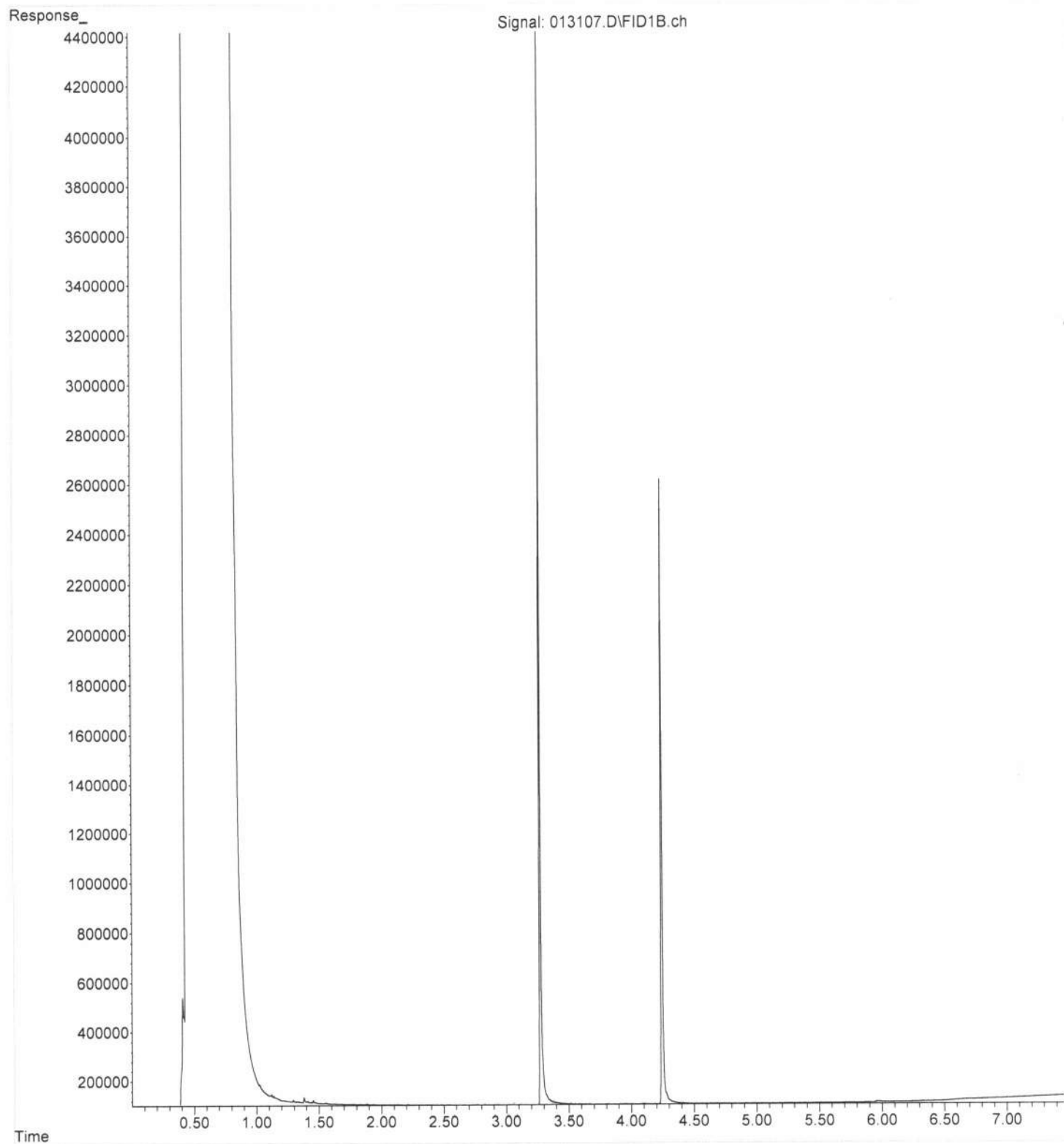
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Vial Number: 6

ERR



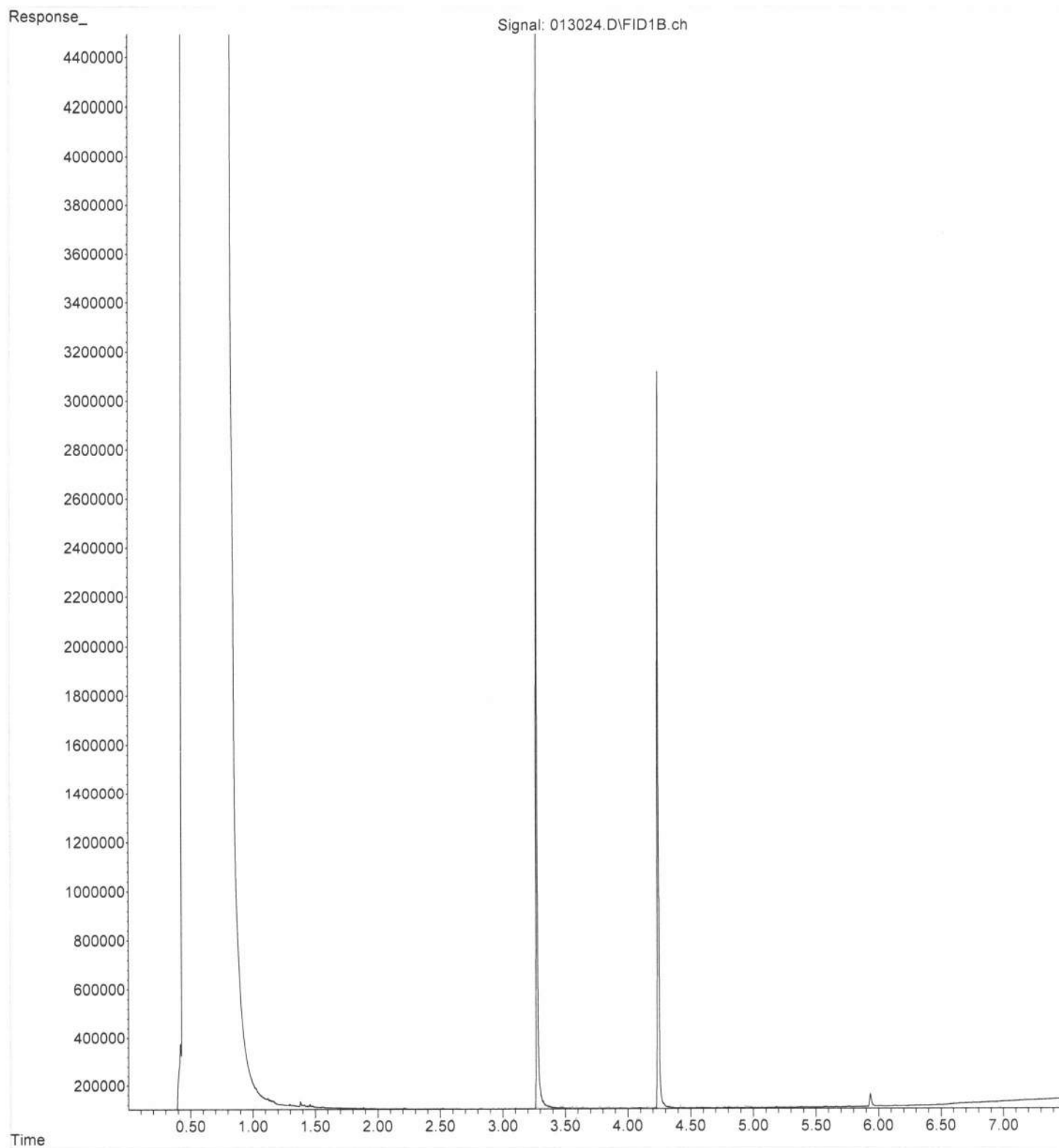
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Sample Name: 401358-03
Misc Info :
Vial Number: 7

ERR



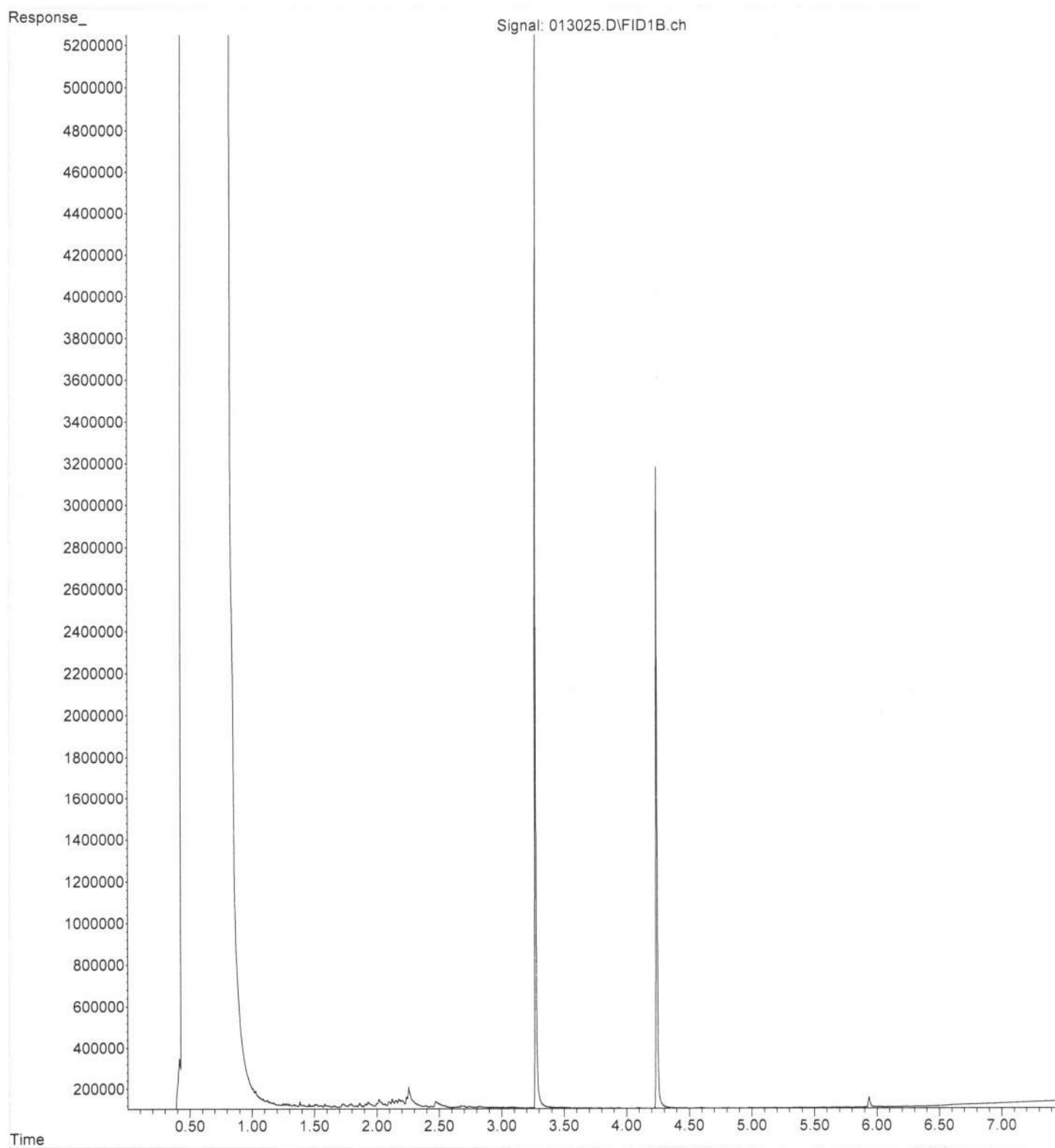
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ERR



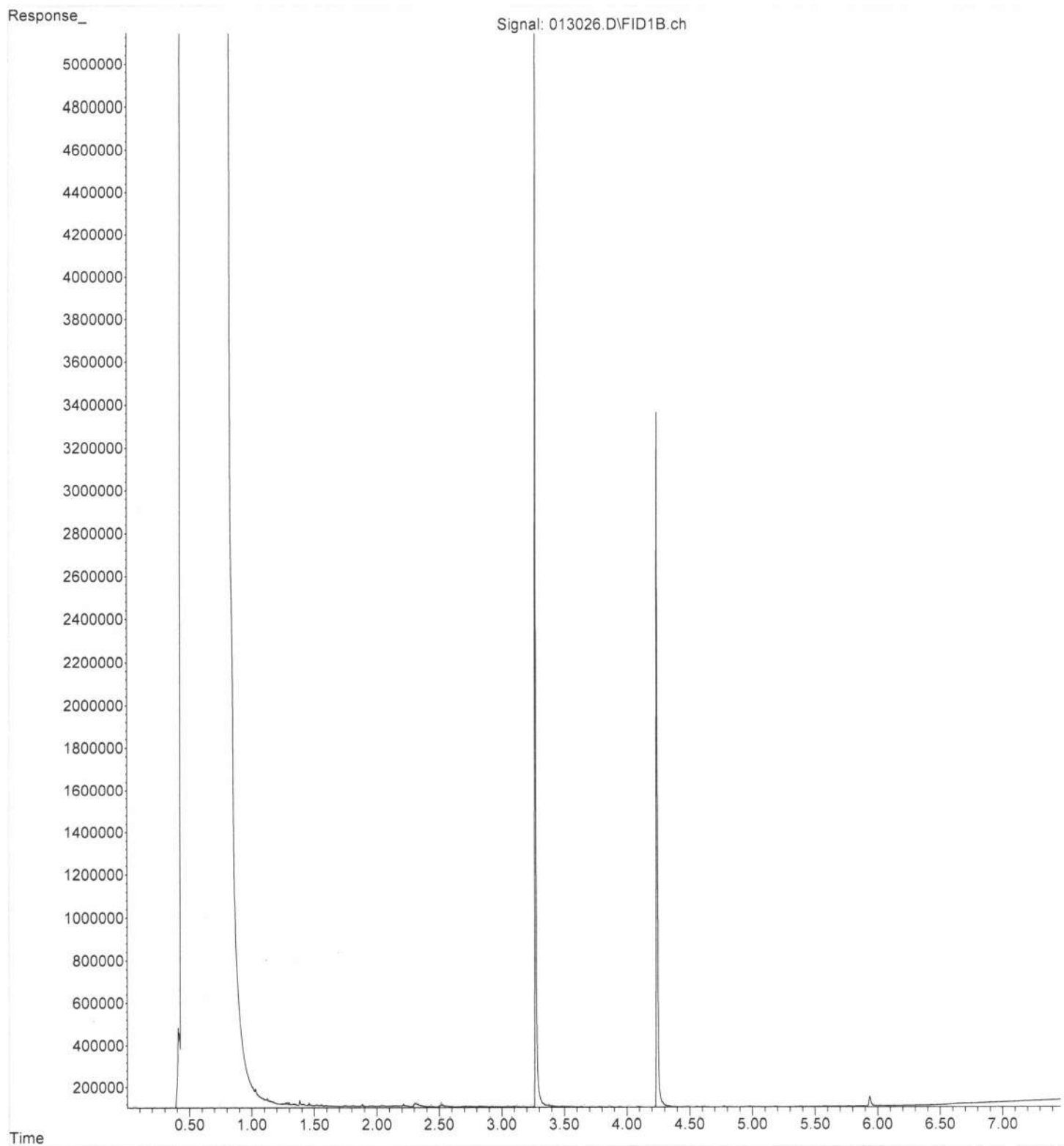
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Misc Info :
Vial Number: 16

ERR



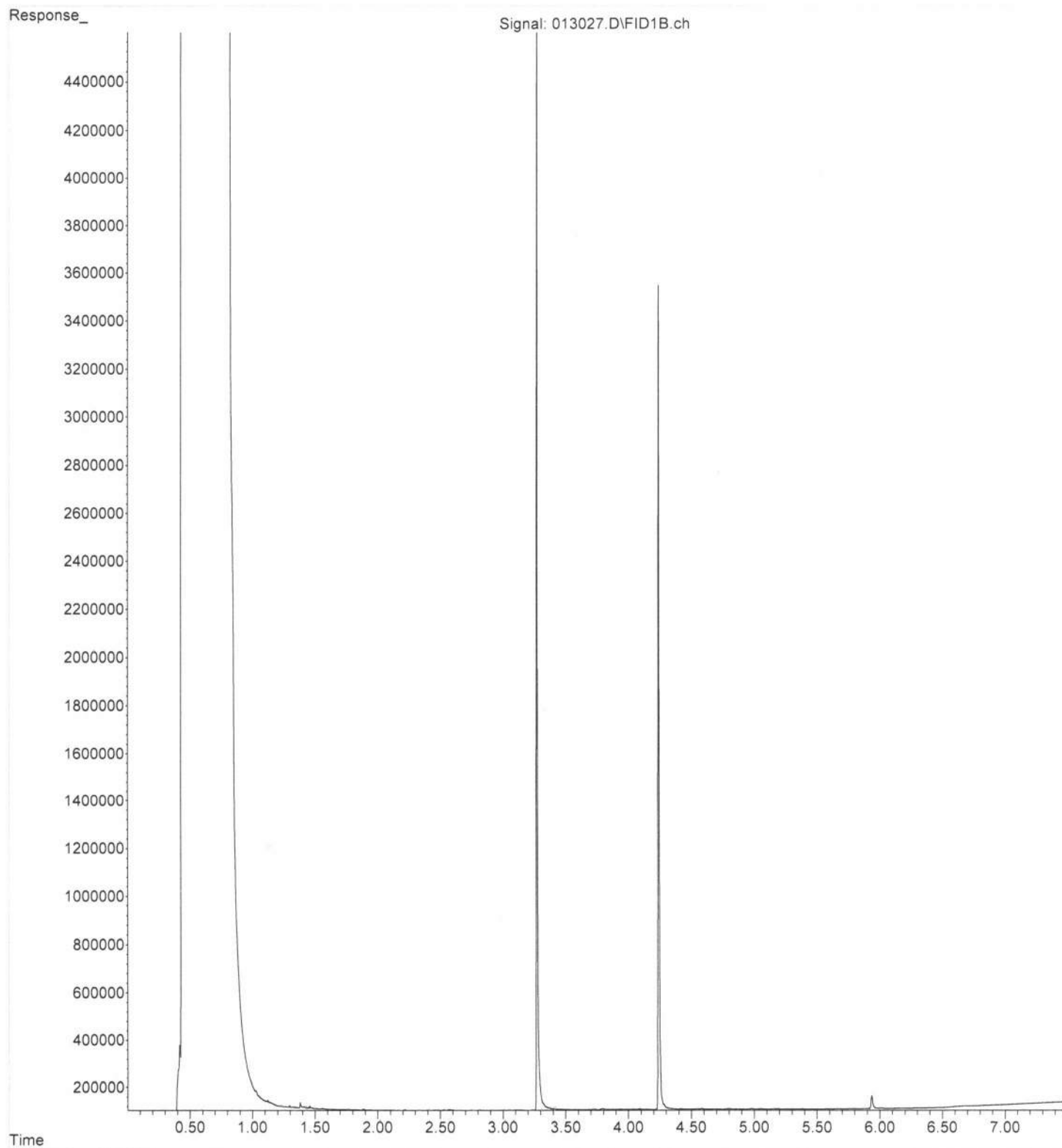
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Vial Number: 17

ERR



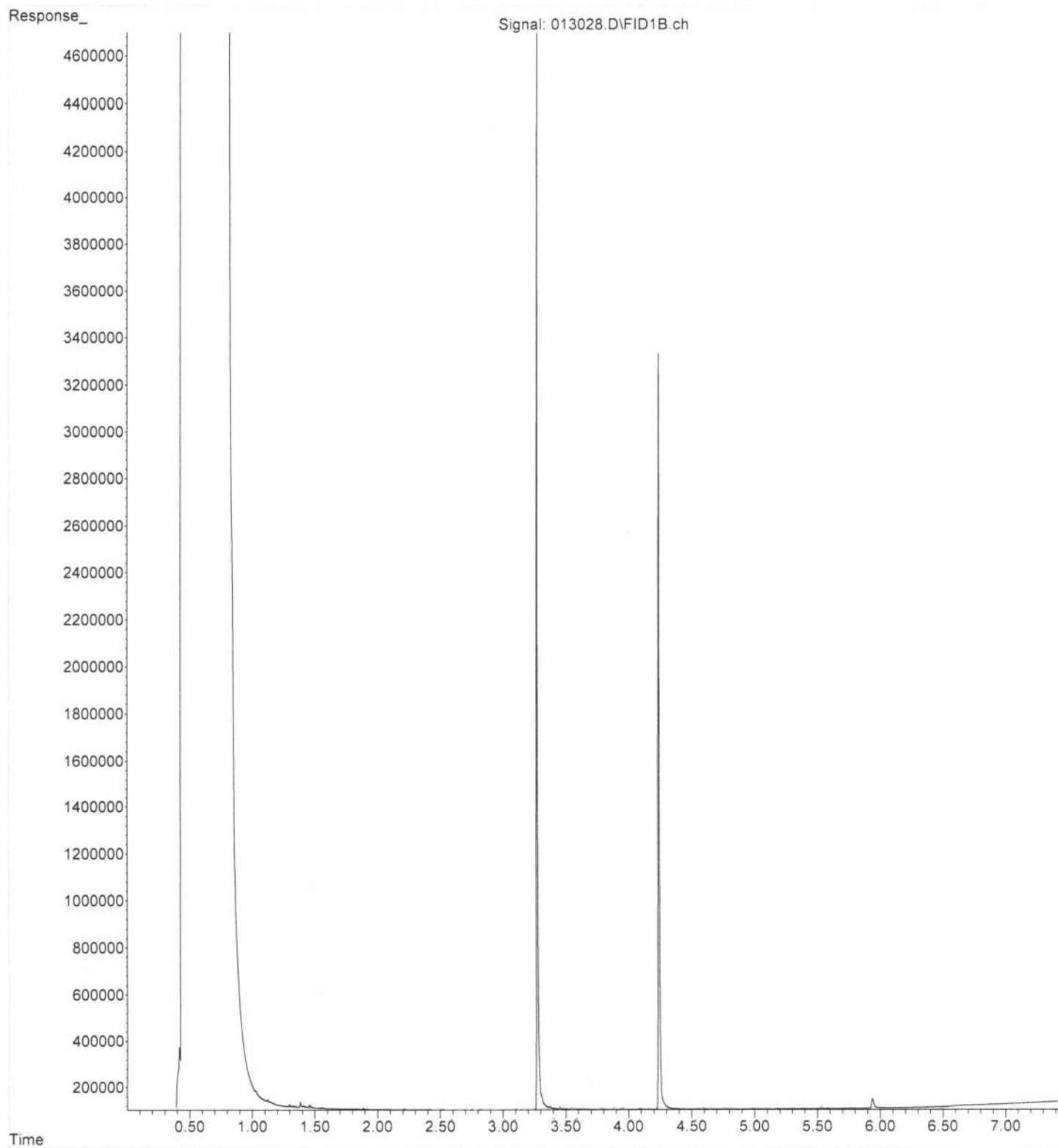
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Vial Number: 18

ERR



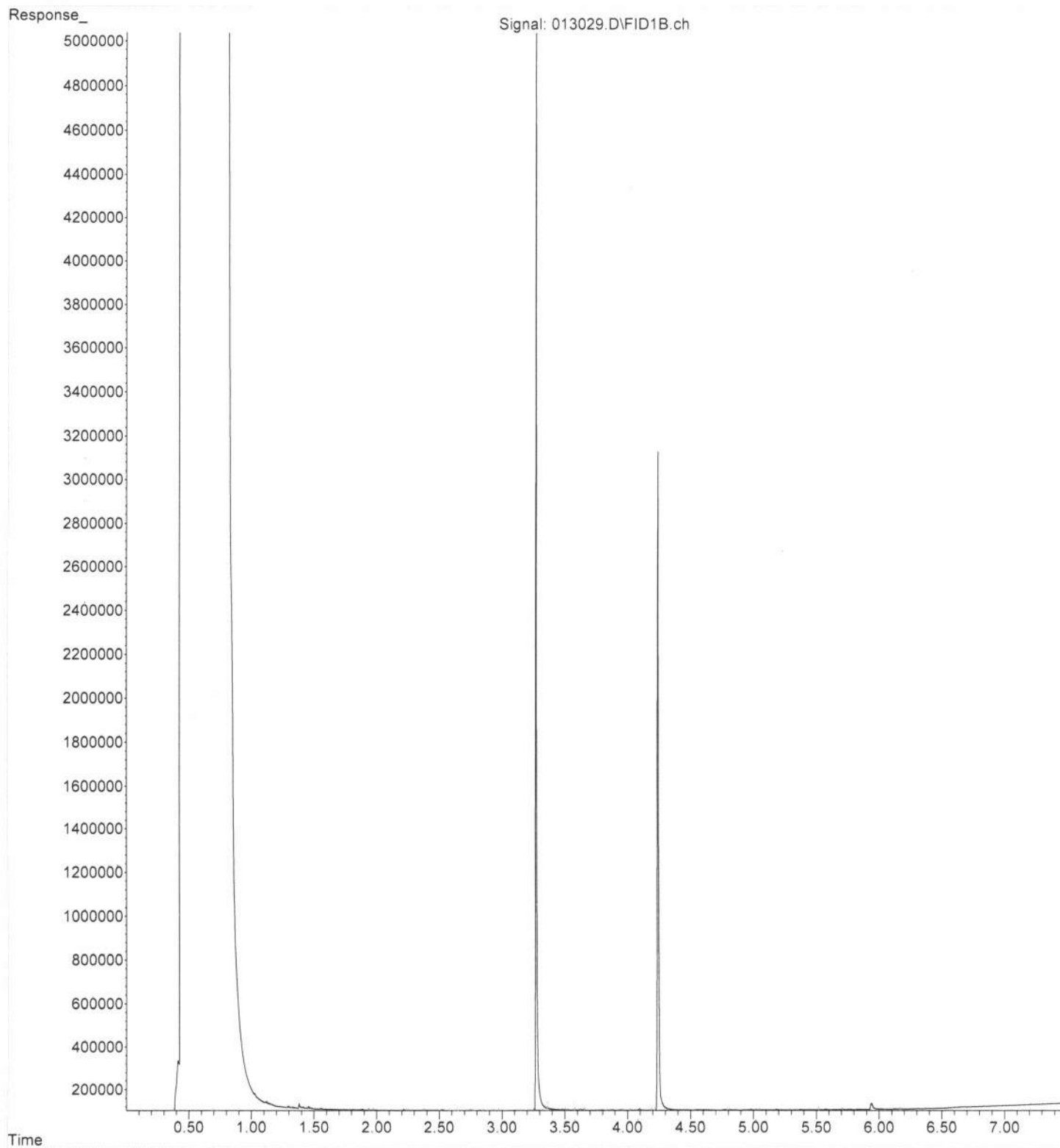
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ERR



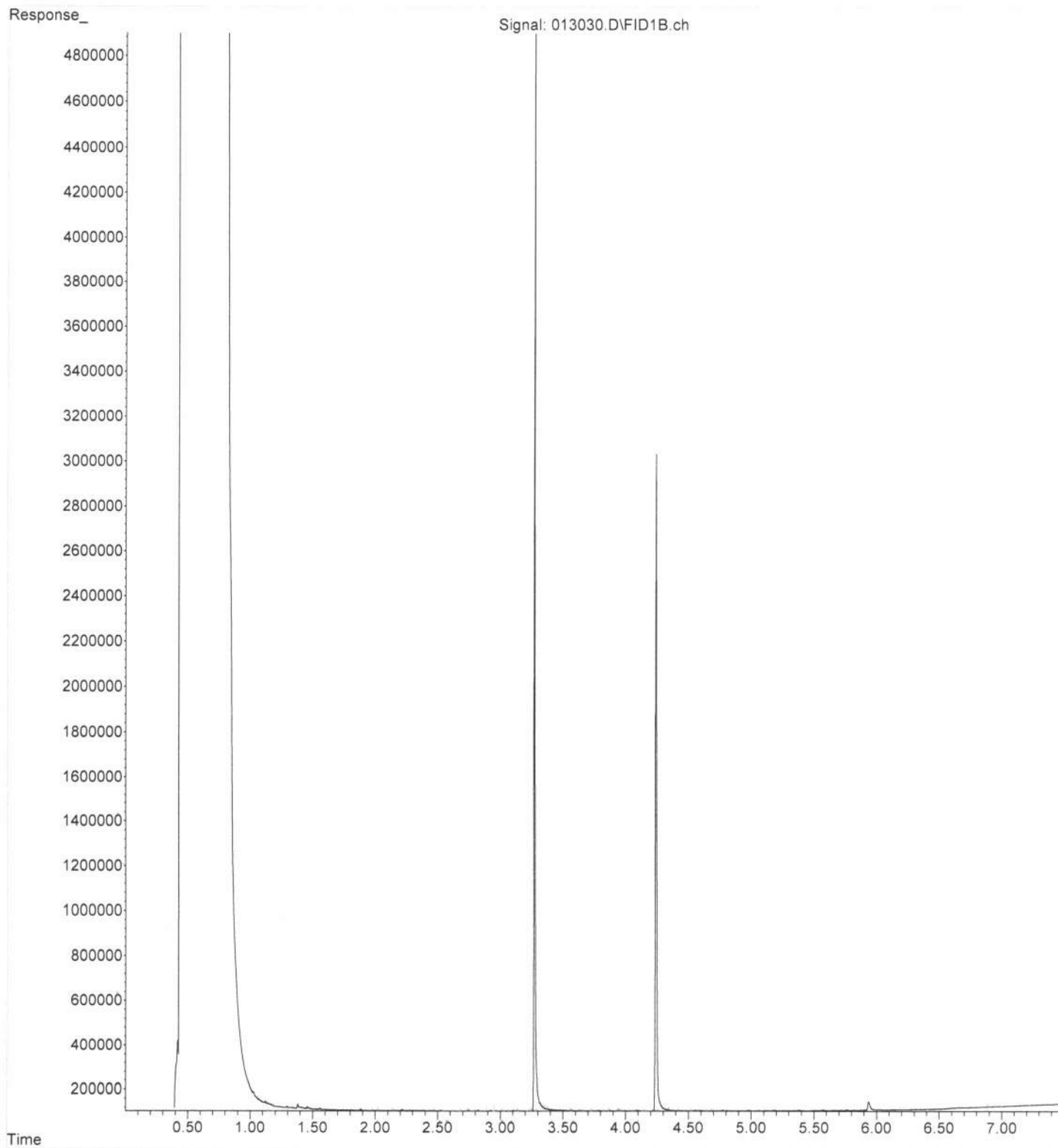
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Vial Number: 20

ERR



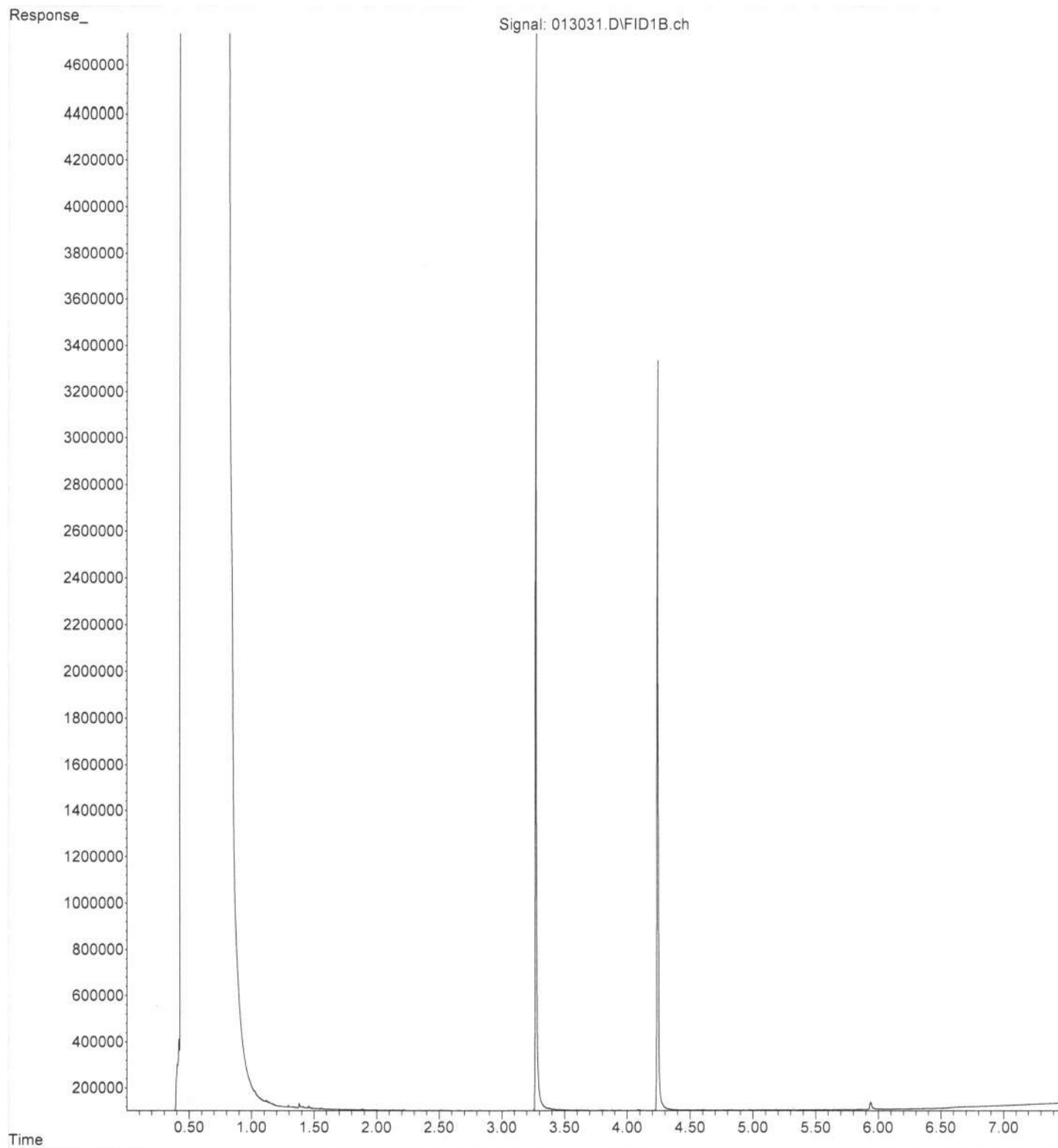
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Instrument : GC13
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Misc Info :
Vial Number: 21

ERR



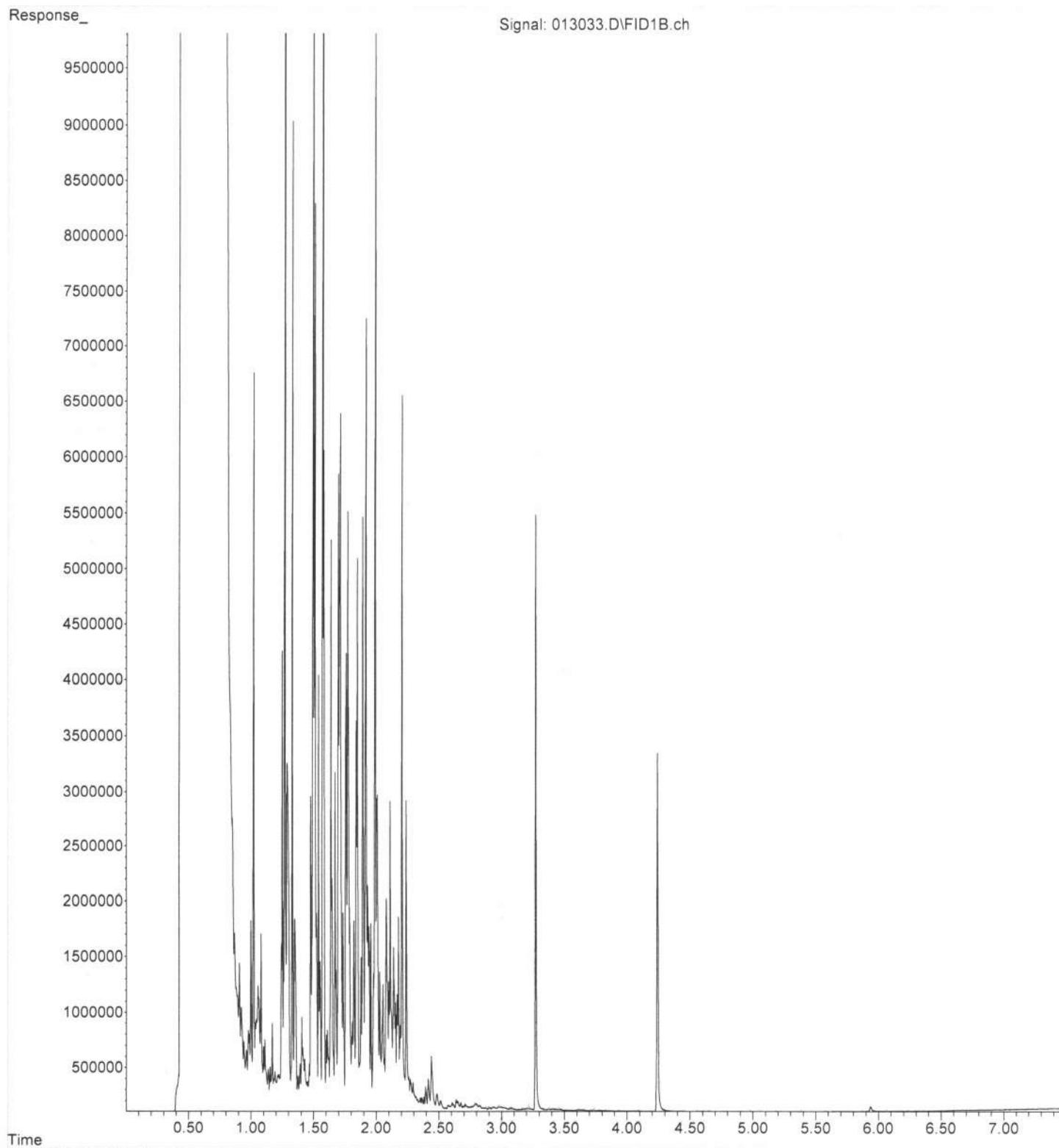
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Instrument : GC13
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Vial Number: 22

ERR



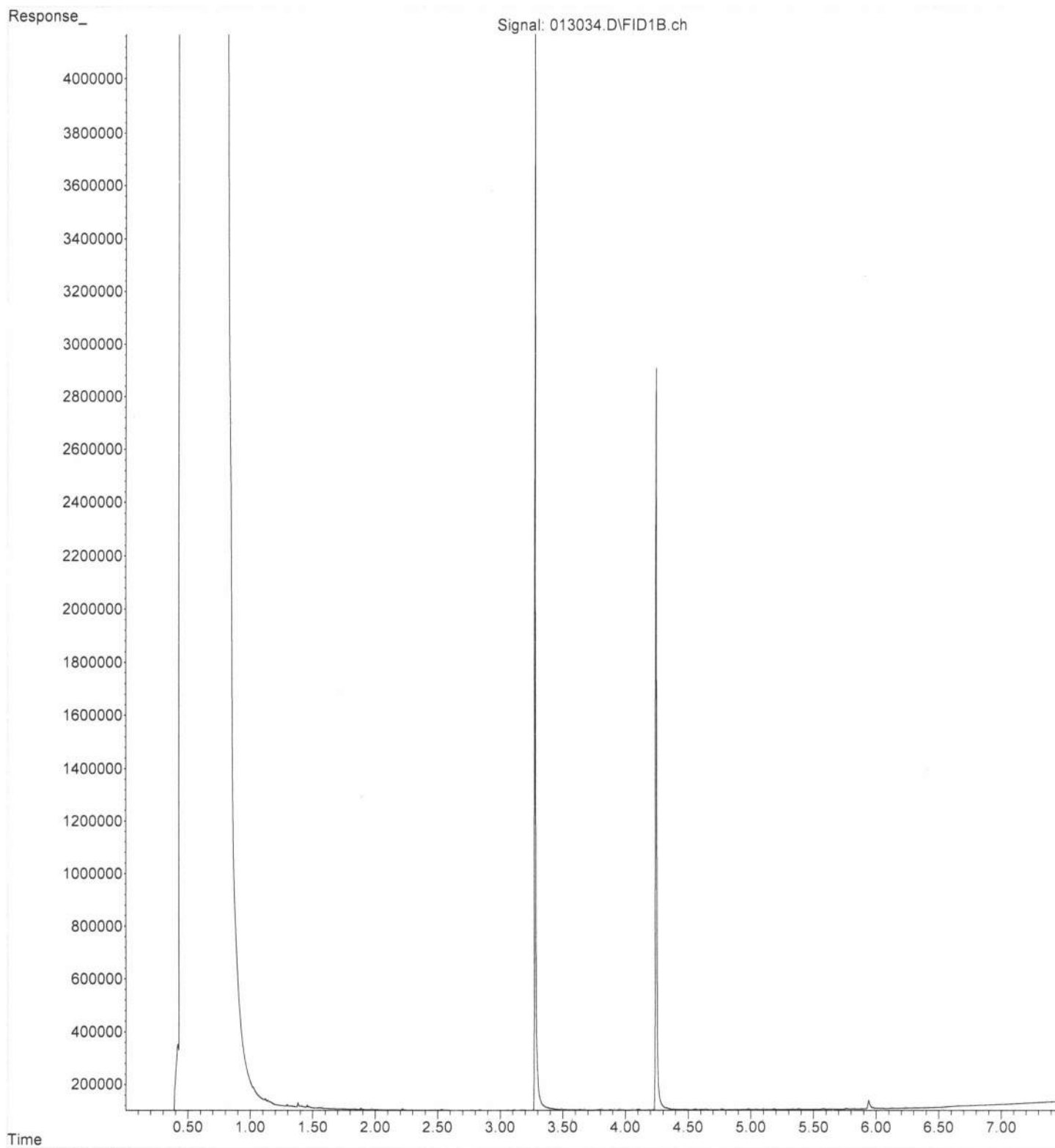
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Misc Info :
Vial Number: 23

ERR



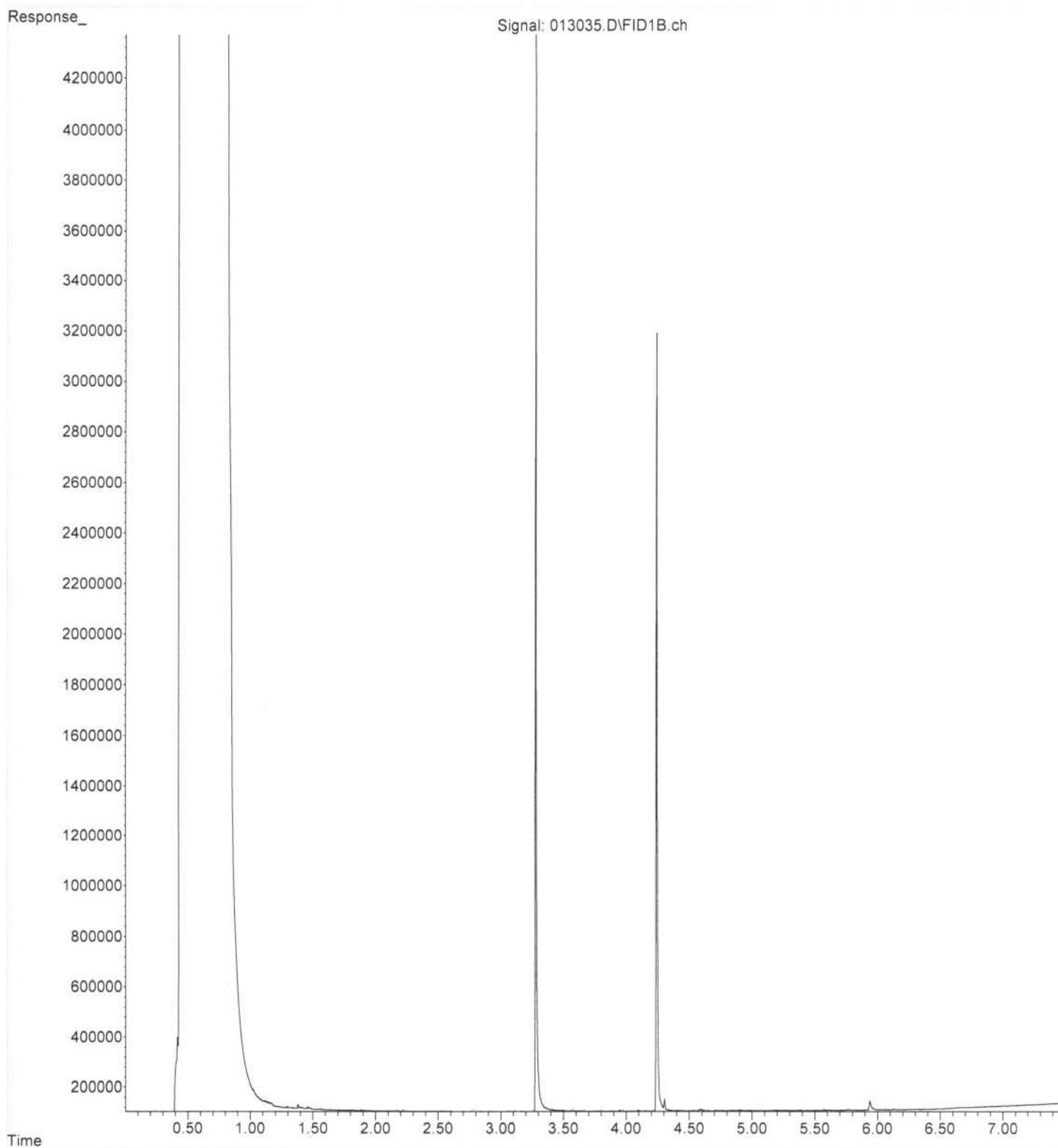
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ERR



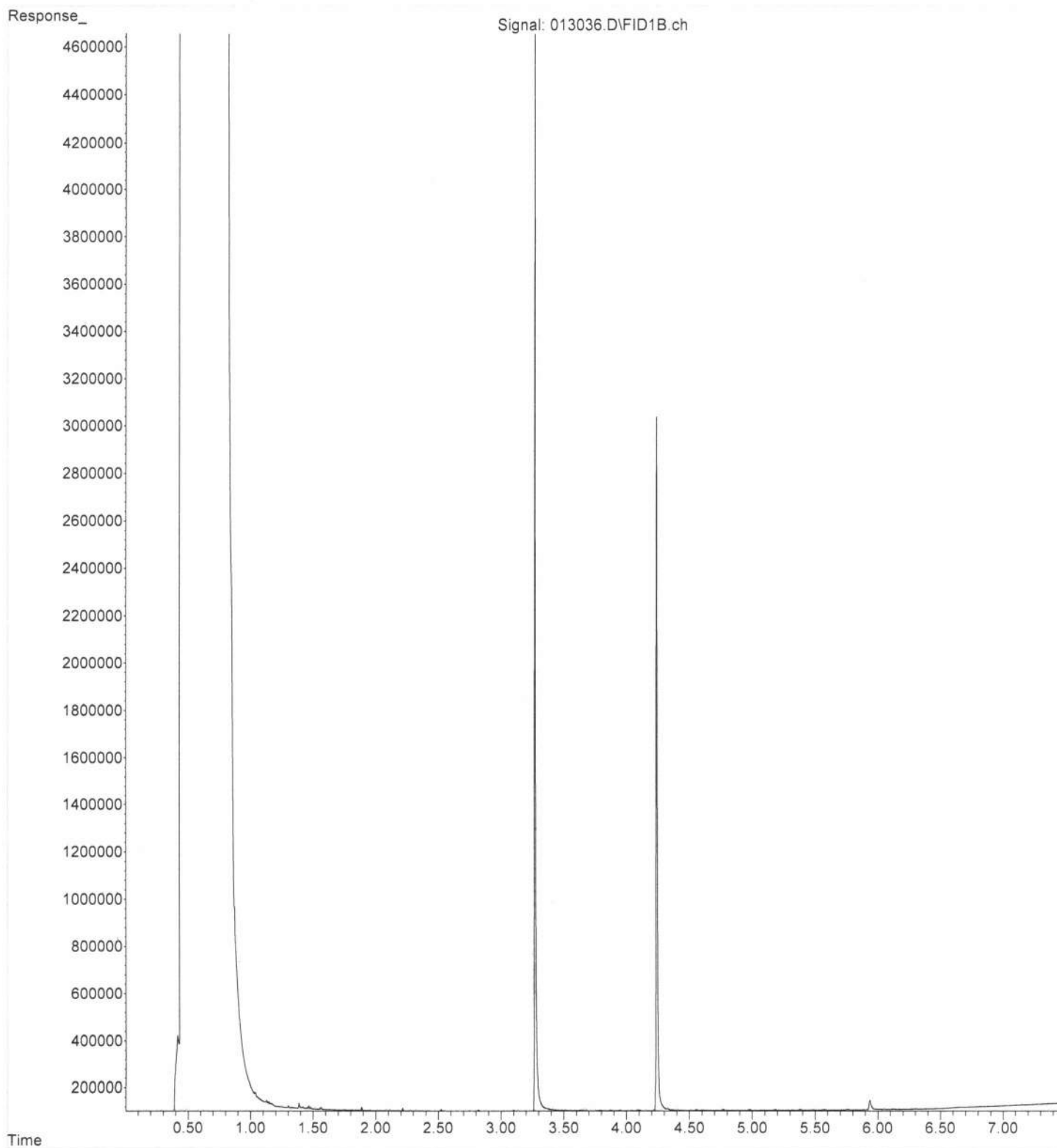
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Misc Info :
Vial Number: 25

ERR



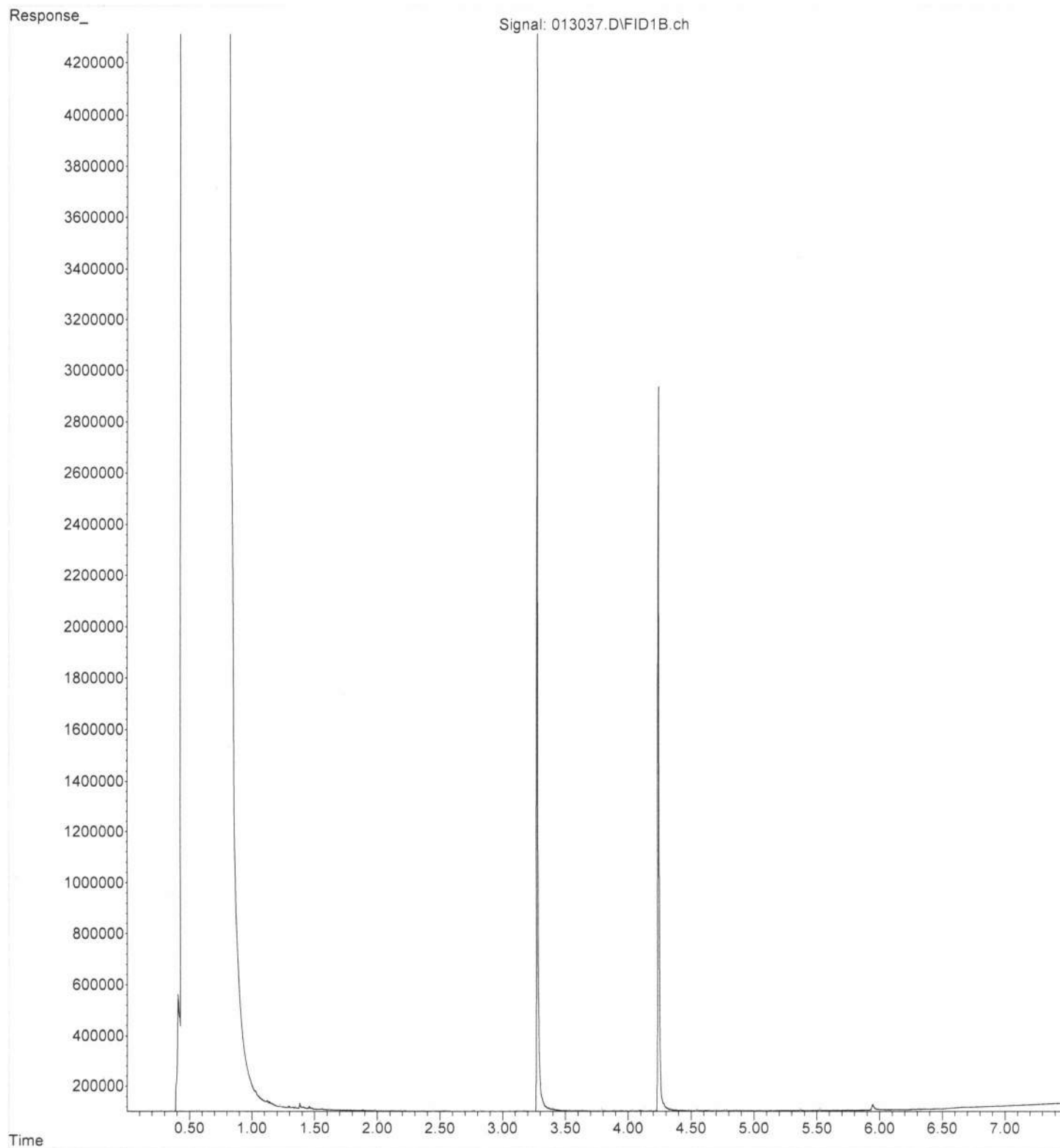
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Sample Name: 401358-18
Misc Info :
Vial Number: 26

ERR



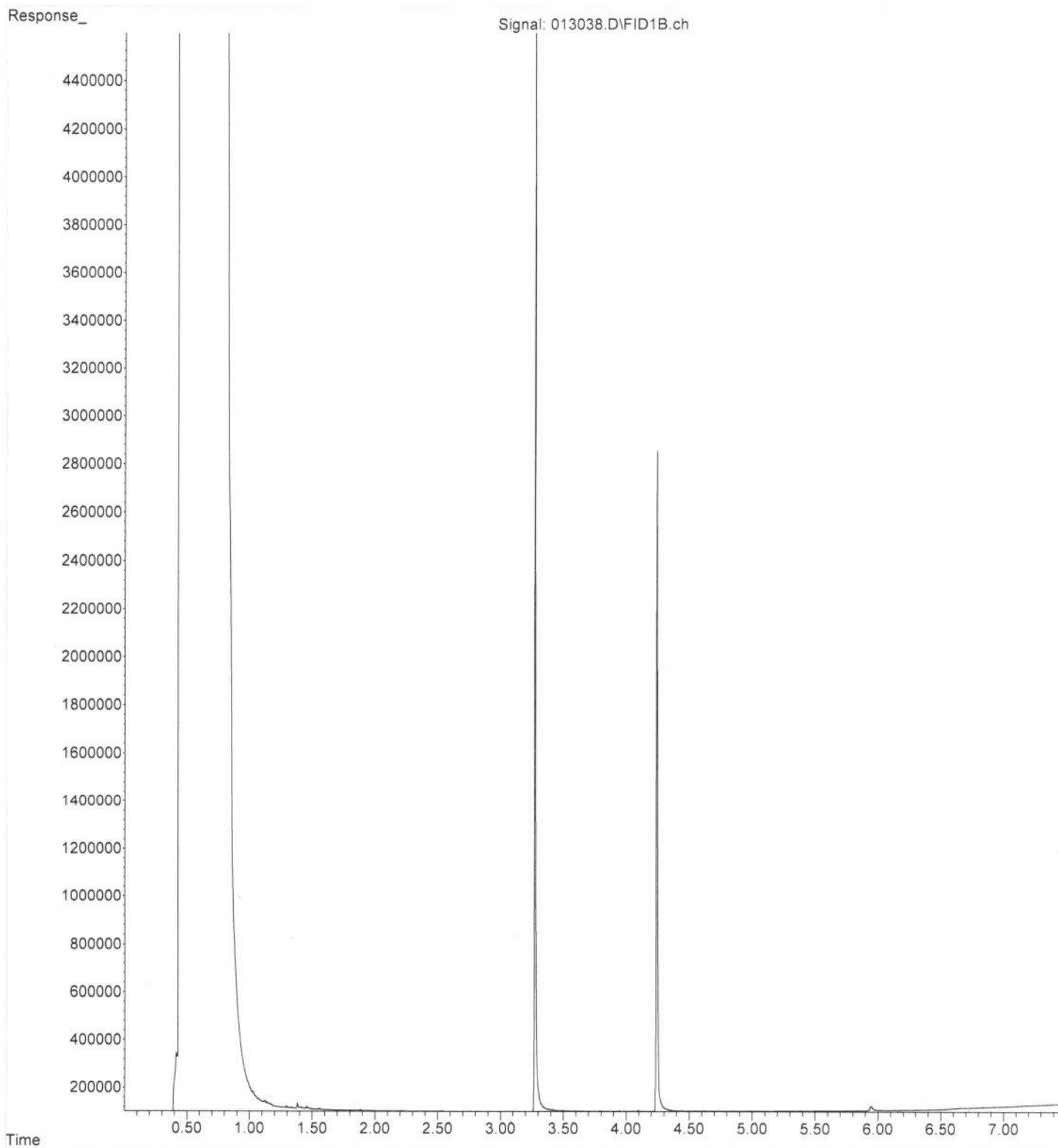
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Misc Info :
Vial Number: 27

ERR



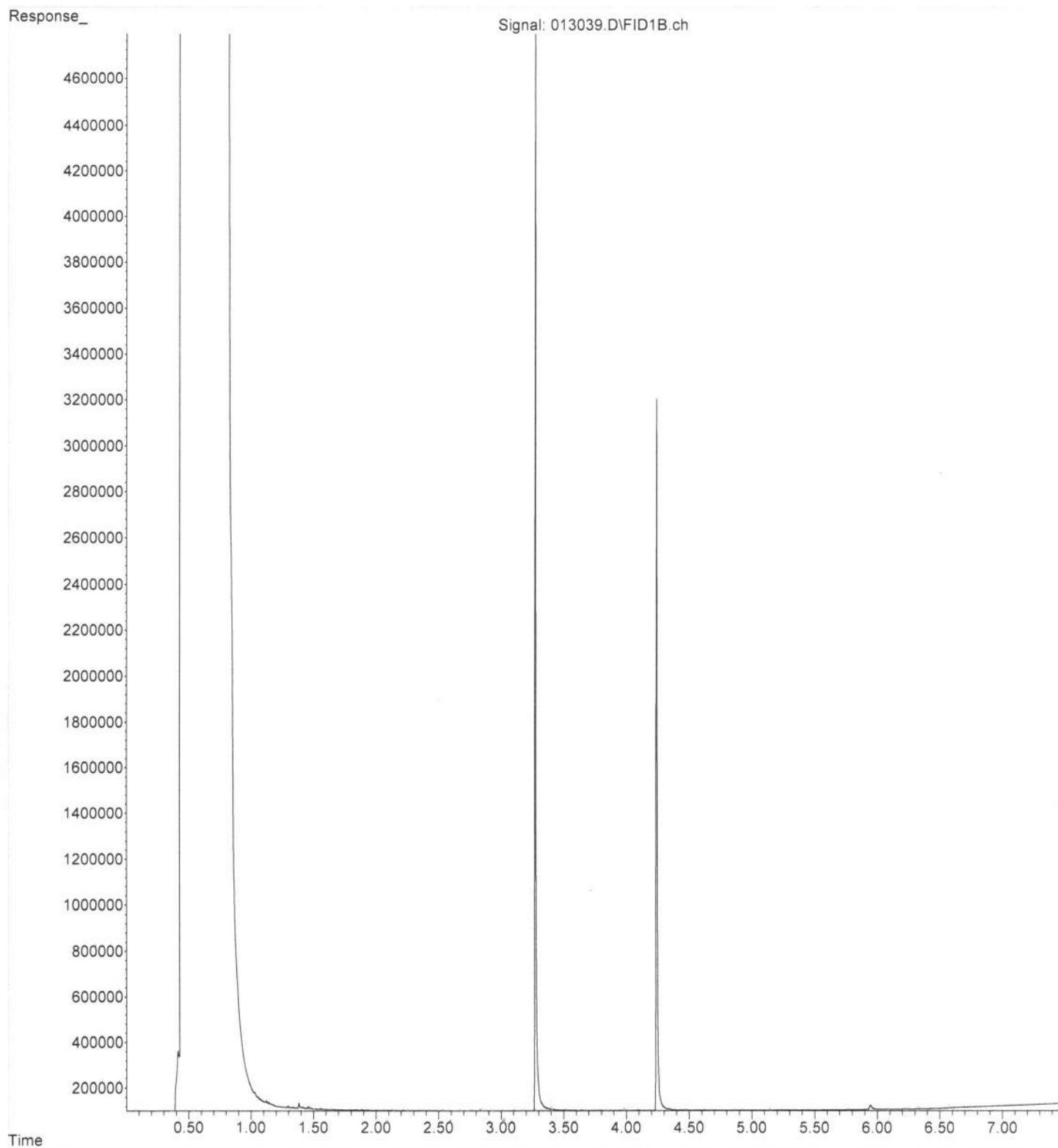
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Sample Name: 401358-20
Misc Info :
Vial Number: 28

ERR



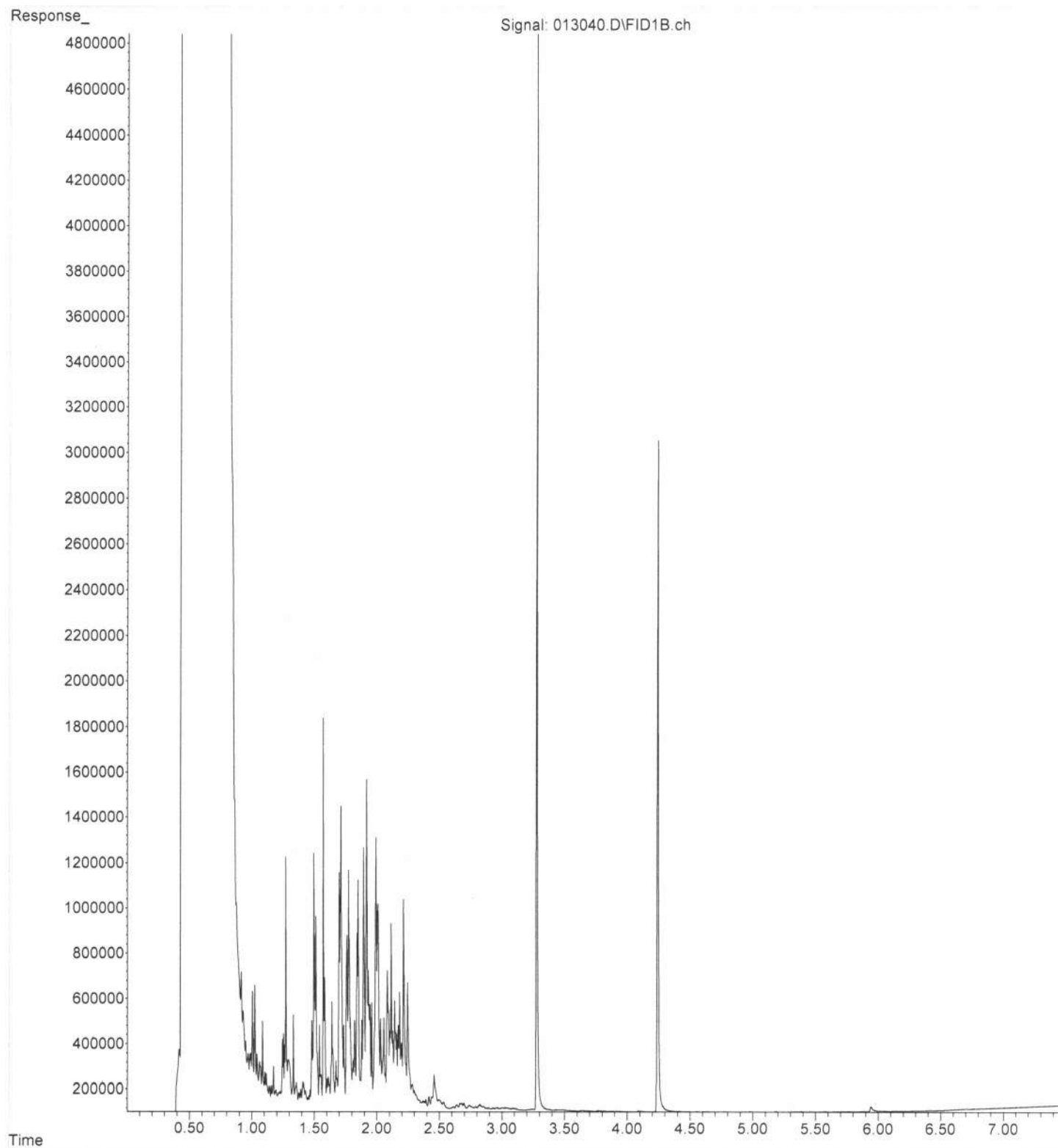
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Misc Info :
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ERR



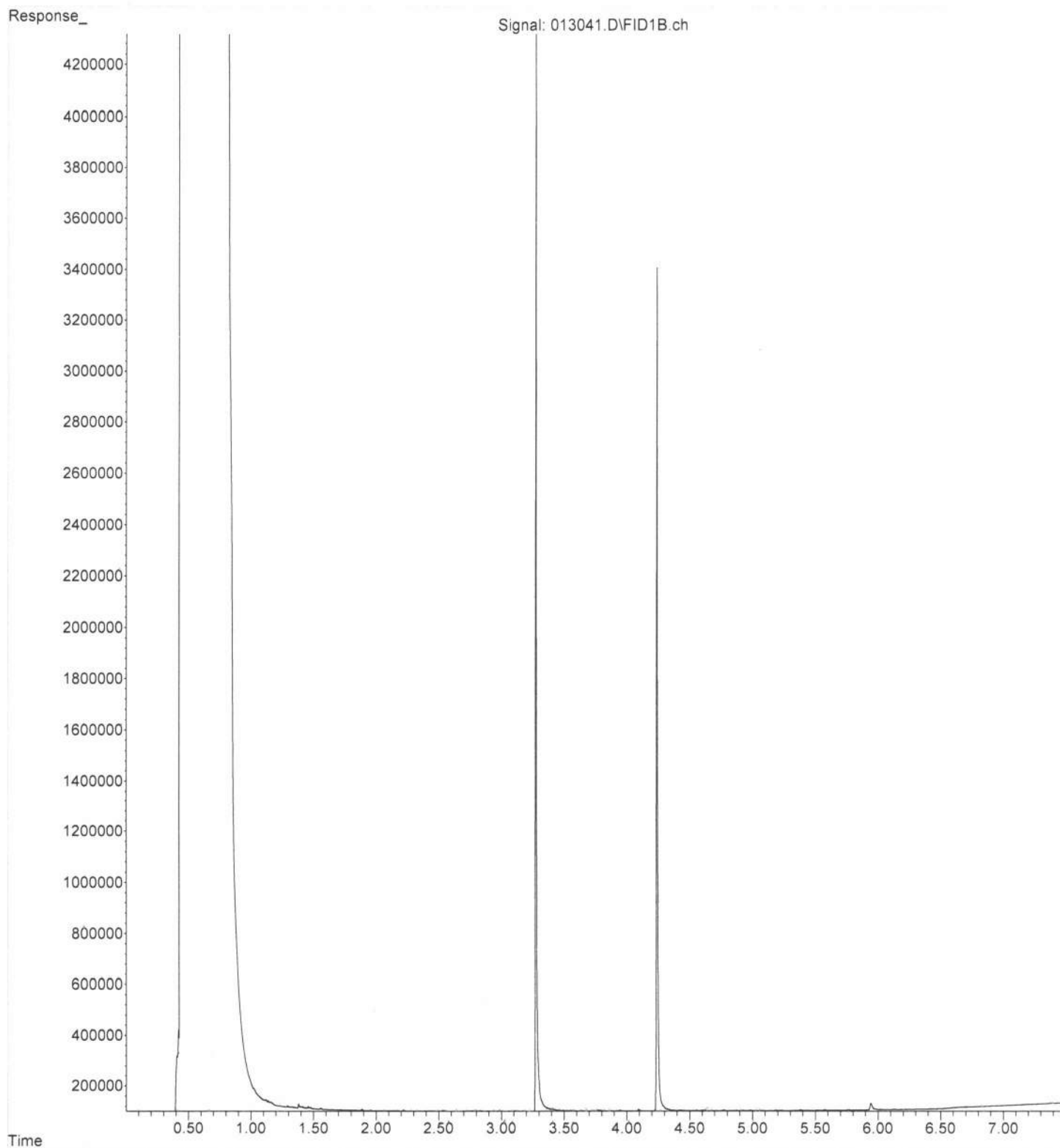
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Misc Info :
Vial Number: 30

ERR



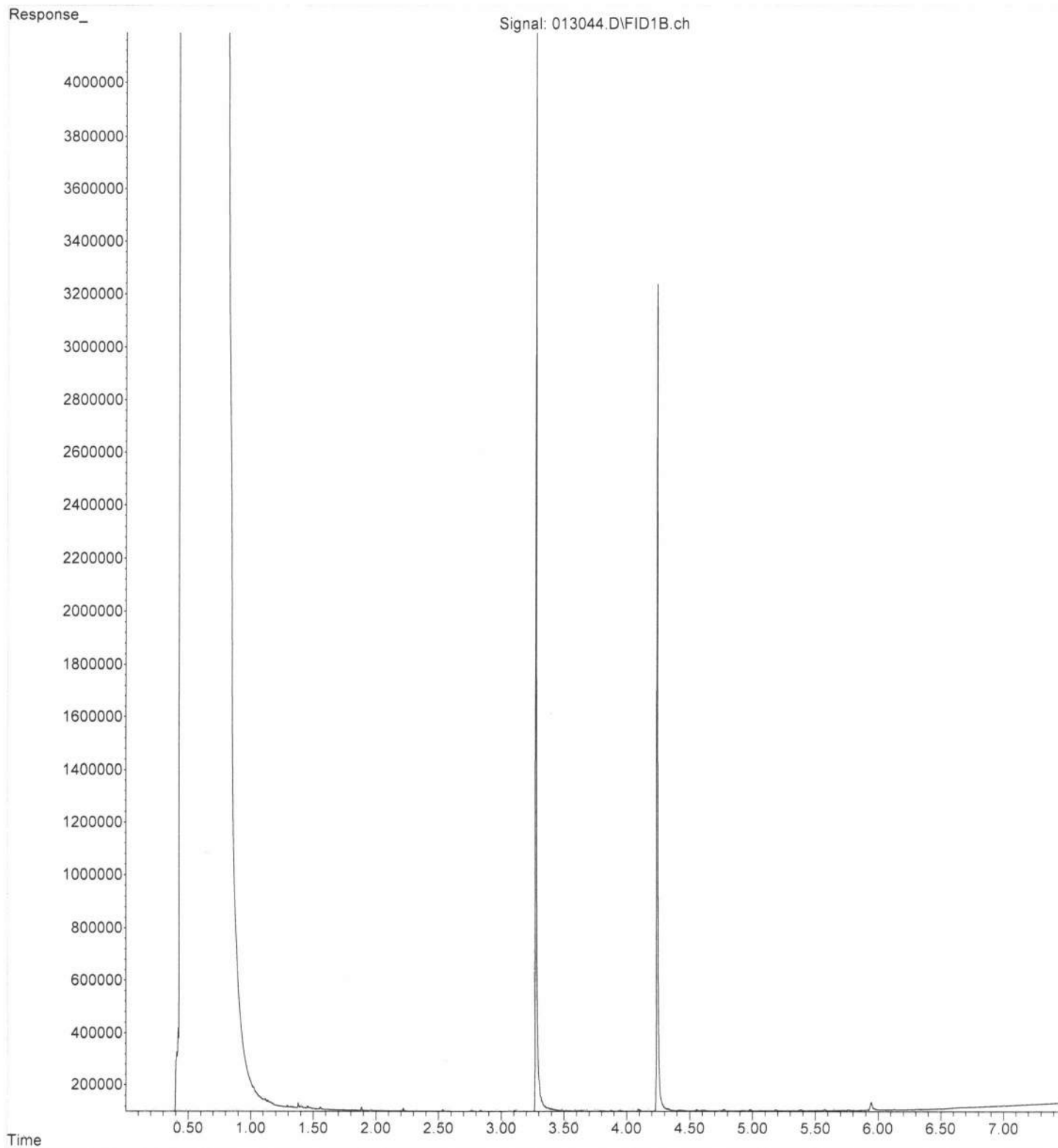
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Vial Number: 31

ERR



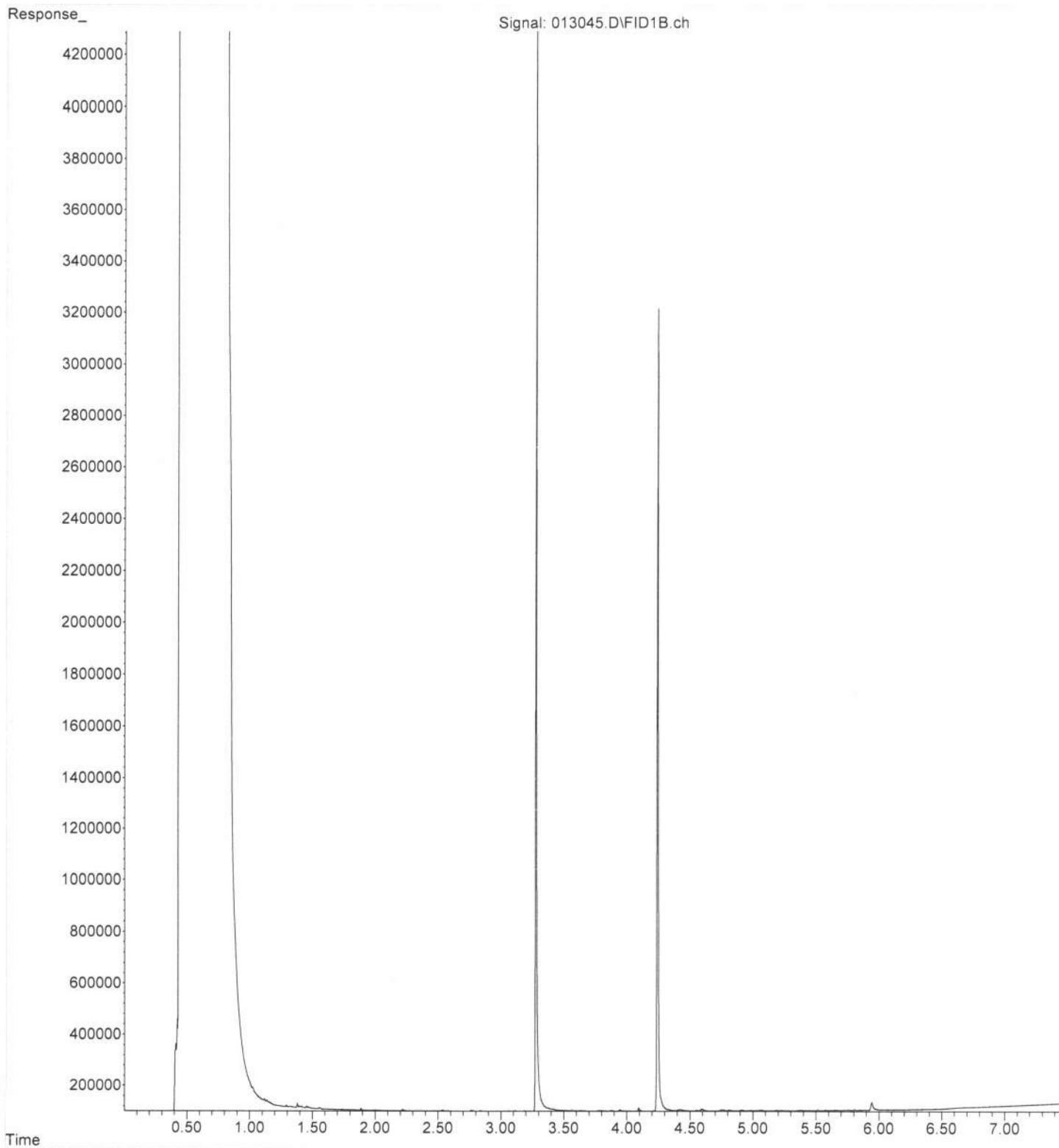
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Misc Info :
Vial Number: 33

ERR



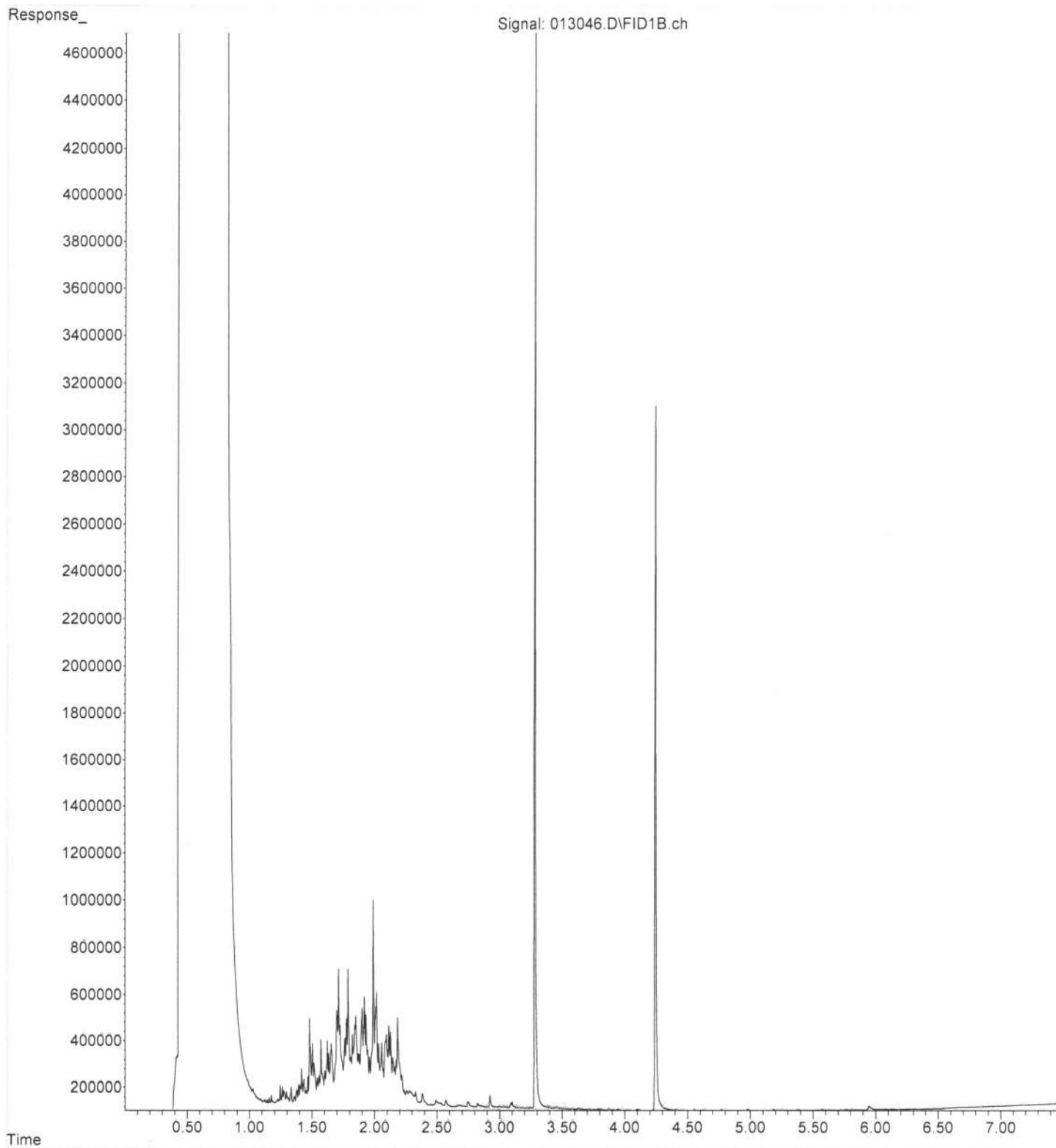
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Misc Info :
Vial Number: 34

ERR



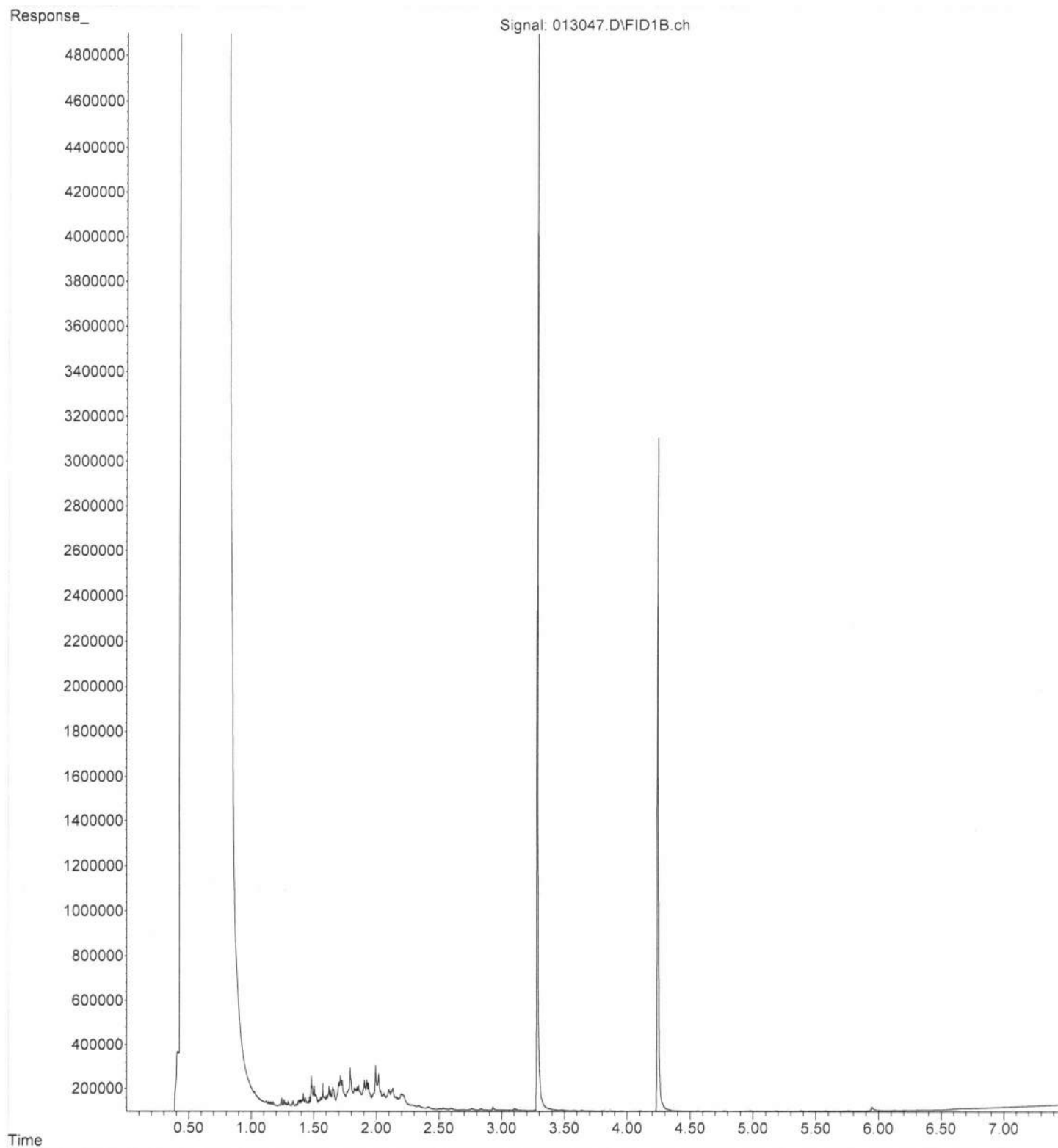
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Sample Name: 401358-27
Misc Info :
Vial Number: 35

ERR



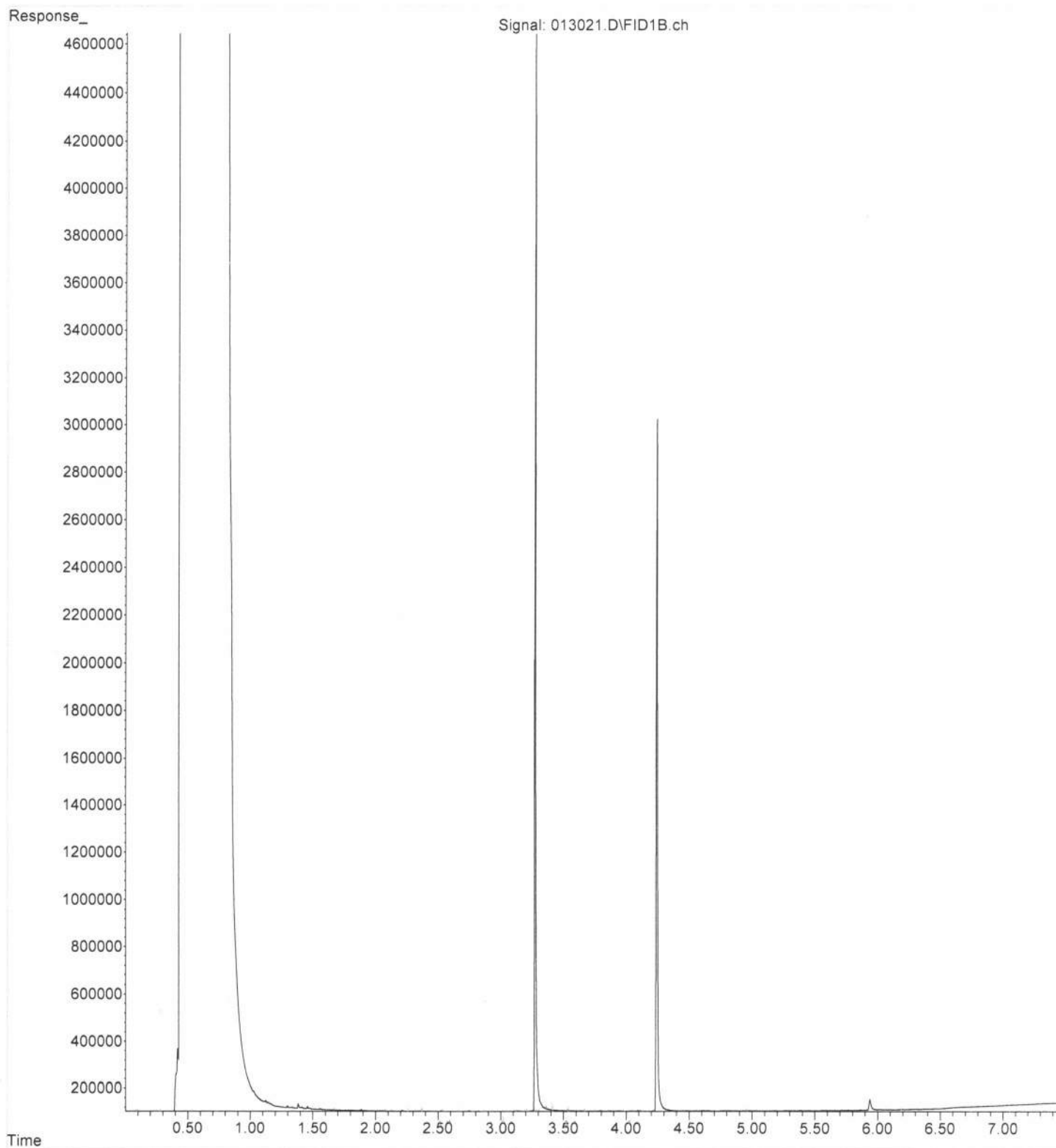
File :P:\Proc_GC13\01-30-24\013047.D
Operator : TL
Acquired : 30 Jan 2024 05:39 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-28
Misc Info :
Vial Number: 36

ERR



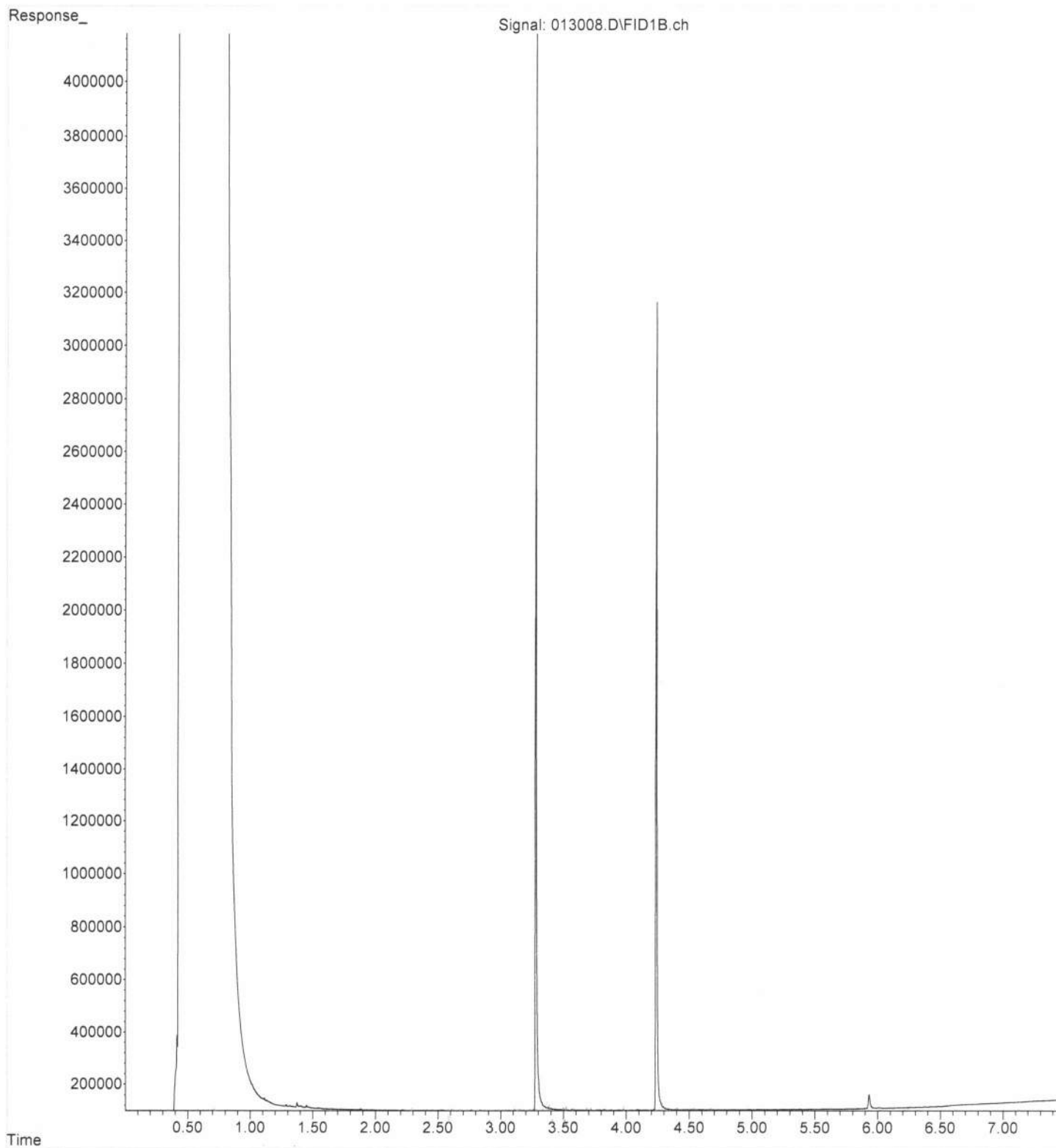
File : P:\Proc_GC13\01-30-24\013021.D
Operator : TL
Acquired : 30 Jan 2024 12:49 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-257 mb2
Misc Info :
Vial Number: 32

ERR



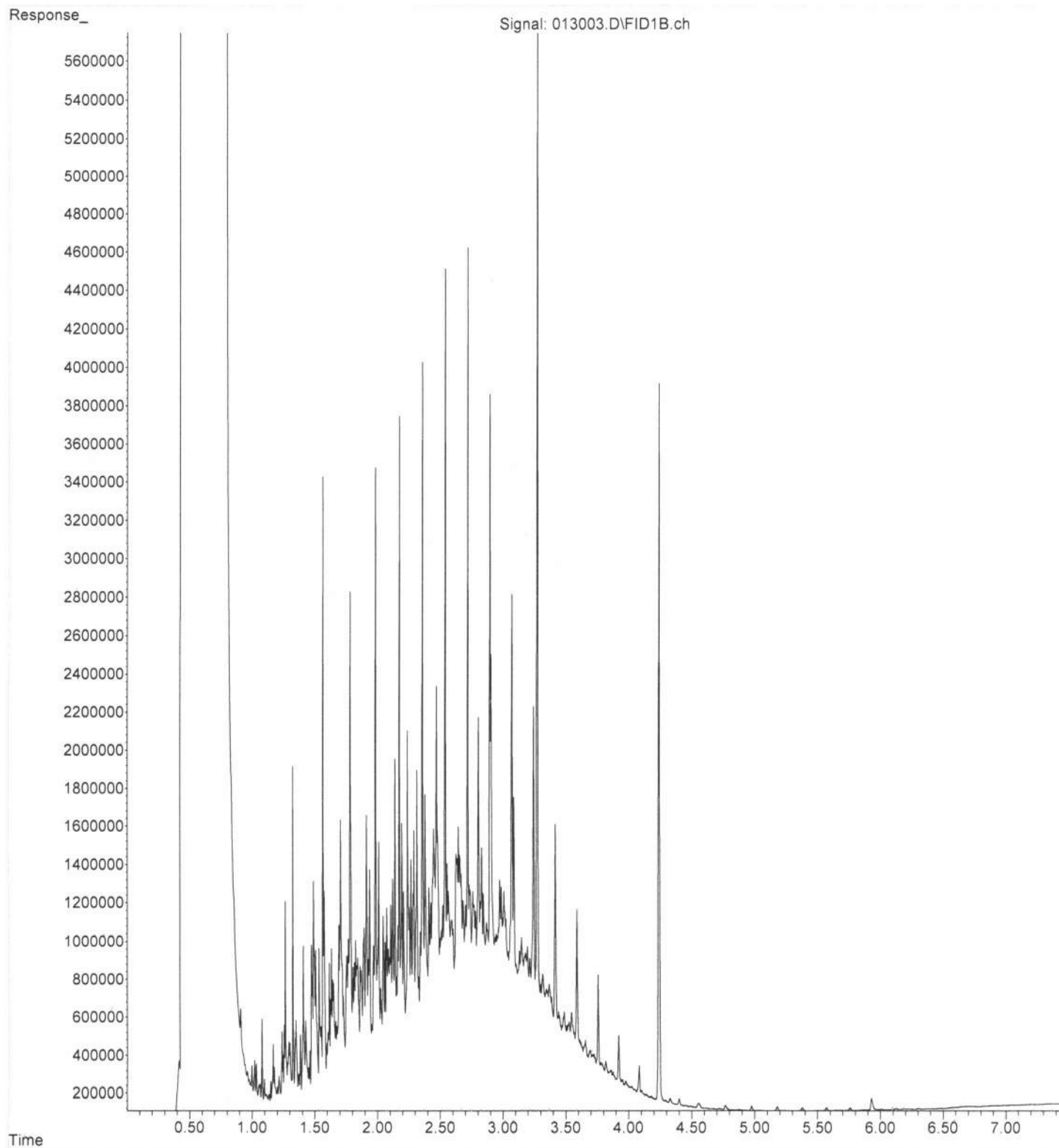
File :P:\Proc_GC13\01-30-24\013008.D
Operator : TL
Acquired : 30 Jan 2024 10:24 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-259 mb
Misc Info :
Vial Number: 9

ERR



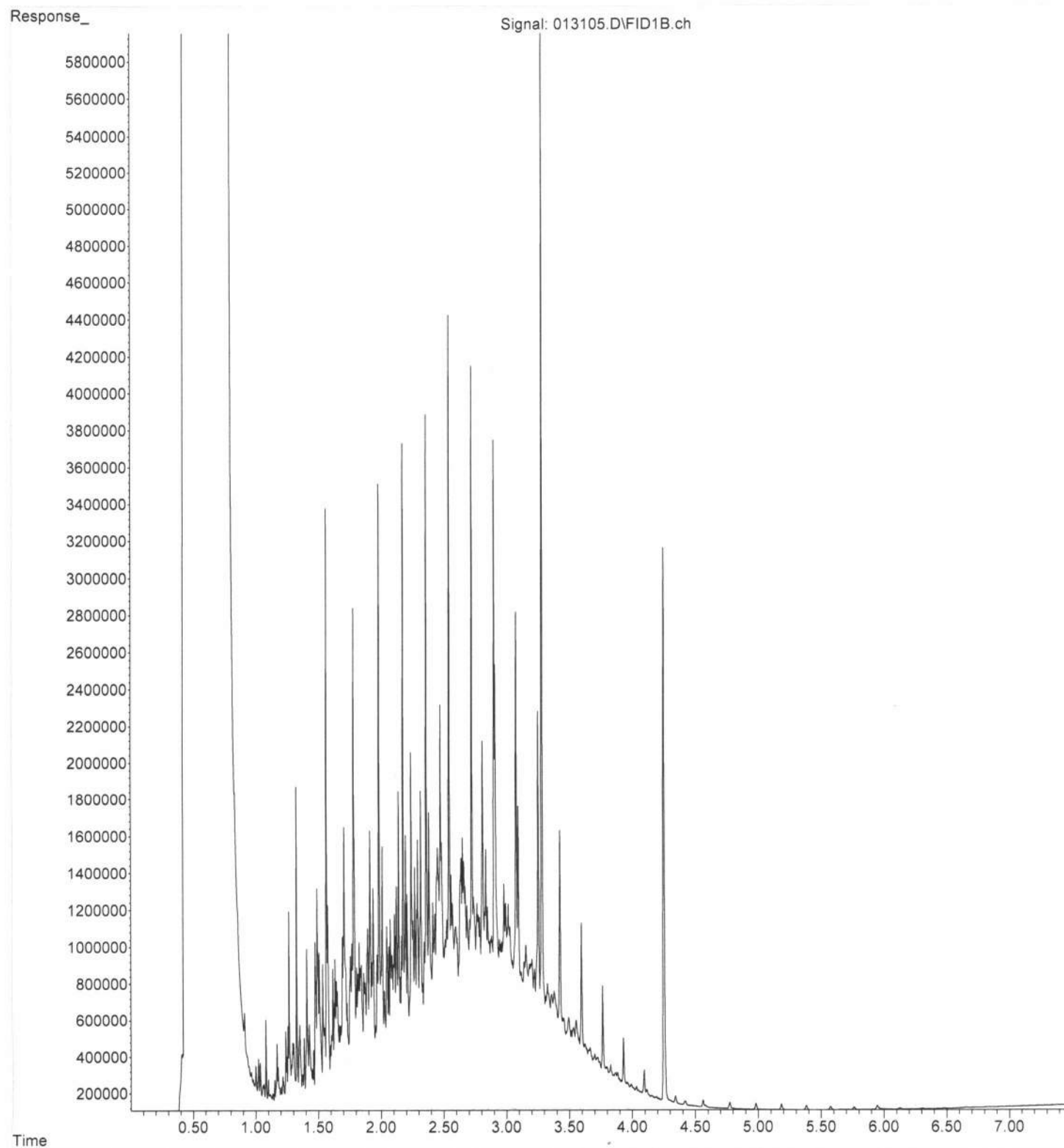
File :P:\Proc_GC13\01-30-24\013003.D
Operator : TL
Acquired : 30 Jan 2024 08:28 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR



File :P:\Proc_GC13\01-31-24\013105.D
Operator : TL
Acquired : 31 Jan 2024 08:44 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.
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T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401358
Work Order Number: 2402008

February 22, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 5 sample(s) on 2/1/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401358
Work Order: 2402008

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402008-001 | HA-1-S6 | 01/26/2024 2:30 PM | 02/01/2024 9:30 AM |
| 2402008-002 | HA-1-DUP | 01/26/2024 3:00 PM | 02/01/2024 9:30 AM |
| 2402008-003 | HA-2-S7 | 01/25/2024 10:45 AM | 02/01/2024 9:30 AM |
| 2402008-004 | HA-3-S6 | 01/23/2024 4:40 PM | 02/01/2024 9:30 AM |
| 2402008-005 | MW-23D-S6 | 01/22/2024 3:10 PM | 02/01/2024 9:30 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 401358

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-001

Collection Date: 1/26/2024 2:30:00 PM

Client Sample ID: HA-1-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 22.7 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 22.7 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Surr: 1-Chlorooctadecane | 64.4 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:12:44 PM |
| Surr: o-Terphenyl | 80.6 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:12:44 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|---|-----------|----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 20.0 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 43.8 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C8-C10) | 101 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 57.9 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C12-C13) | 33.9 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Surr: 2,5-dibromotoluene | 88.2 | 60 - 140 | D | %Rec | 10 | 2/7/2024 4:20:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 11.9 | 0.500 | | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|--|-----|---|---------------------|

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-002

Collection Date: 1/26/2024 3:00:00 PM

Client Sample ID: HA-1-DUP

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 22.6 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 22.6 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C16-C21) | 17.8 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Surr: 1-Chlorooctadecane | 63.9 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:34:33 PM |
| Surr: o-Terphenyl | 76.0 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:34:33 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|---|-----------|----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 123 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 278 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 469 | 93.9 | D | mg/Kg-dry | 50 | 2/7/2024 1:16:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,460 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 688 | 93.9 | D | mg/Kg-dry | 50 | 2/7/2024 1:16:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 215 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Surr: 2,5-dibromotoluene | 110 | 60 - 140 | D | %Rec | 10 | 2/7/2024 4:57:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 11.7 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-003

Collection Date: 1/25/2024 10:45:00 AM

Client Sample ID: HA-2-S7

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | 117 | 22.5 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C10-C12) | 93.8 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C12-C16) | 53.6 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C8-C10) | 332 | 22.5 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C10-C12) | 344 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C12-C16) | 252 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C16-C21) | 46.9 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Surr: 1-Chlorooctadecane | 66.1 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:56:23 PM |
| Surr: o-Terphenyl | 77.8 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:56:23 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|---|-----------|-----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 114 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 498 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 304 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 456 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,760 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 695 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 205 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Surr: 2,5-dibromotoluene | 111 | 60 - 140 | D | %Rec | 10 | 2/7/2024 5:33:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 11.2 | 0.500 | | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|--|-----|---|---------------------|

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-004

Collection Date: 1/23/2024 4:40:00 PM

Client Sample ID: HA-3-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C10-C12) | 18.9 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C12-C16) | 12.5 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C8-C10) | 27.4 | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C10-C12) | 60.7 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C12-C16) | 61.9 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C16-C21) | 22.0 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Surr: 1-Chlorooctadecane | 53.7 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:18:23 PM |
| Surr: o-Terphenyl | 82.3 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:18:23 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|----|-----------|-----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 536 | 15.8 | DH | mg/Kg-dry | 10 | 2/7/2024 6:45:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 1,530 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 553 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 802 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,920 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1,120 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 276 | 15.8 | DH | mg/Kg-dry | 10 | 2/7/2024 6:45:00 AM |
| Surr: 2,5-dibromotoluene | 111 | 60 - 140 | DH | %Rec | 10 | 2/7/2024 6:45:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 8.81 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

CLIENT: Friedman & Bruya

Project: 401358

Lab ID: 2402008-005

Collection Date: 1/22/2024 3:10:00 PM

Client Sample ID: MW-23D-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C10-C12) | 28.5 | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C12-C16) | 21.3 | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Surr: 1-Chlorooctadecane | 63.7 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:40:09 PM |
| Surr: o-Terphenyl | 79.0 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:40:09 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|----|-----------|-----|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | 10.7 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 67.1 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 170 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 111 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 250 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 64 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Surr: 2,5-dibromotoluene | 125 | 60 - 140 | H | %Rec | 1 | 2/7/2024 3:44:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 8.51 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42943 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89774 | | |
| Client ID: MBLKS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873777 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 68.7 | | 100.0 | | 68.7 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42943 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89775 | | |
| Client ID: MBLKS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873787 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 74.1 | | 100.0 | | 74.1 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42943 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89774 | | |
| Client ID: LCSS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873778 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 99.5 | 20.0 | 250.0 | 0 | 39.8 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 69.3 | 10.0 | 125.0 | 0 | 55.4 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 72.9 | 10.0 | 125.0 | 0 | 58.3 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 78.2 | 10.0 | 125.0 | 0 | 62.6 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 79.2 | 10.0 | 125.0 | 0 | 63.4 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 66.3 | | 100.0 | | 66.3 | 50 | 150 | | | | |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Sample ID: LCS-42943 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89775 | | |
| Client ID: LCSS | Batch ID: 42943 | Analysis Date: 2/22/2024 | | | | | | SeqNo: 1873788 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 120 | 20.0 | 250.0 | 0 | 47.9 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 82.4 | 10.0 | 125.0 | 0 | 65.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 92.5 | 10.0 | 125.0 | 0 | 74.0 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 89.6 | 10.0 | 125.0 | 0 | 71.7 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 81.2 | 10.0 | 125.0 | 0 | 65.0 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 66.6 | | 100.0 | | 66.6 | 50 | 150 | | | | |

| Sample ID: LCSD-42943 | SampType: LCSD | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89774 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: LCSS02 | Batch ID: 42943 | Analysis Date: 2/22/2024 | | | | | | | SeqNo: 1873779 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 94.4 | 20.0 | 250.0 | 0 | 37.8 | 15.9 | 130 | 99.53 | 5.24 | 20 | |
| Aliphatic Hydrocarbon (C10-C12) | 68.9 | 10.0 | 125.0 | 0 | 55.1 | 30.4 | 115 | 69.28 | 0.565 | 20 | |
| Aliphatic Hydrocarbon (C12-C16) | 77.0 | 10.0 | 125.0 | 0 | 61.6 | 39.8 | 130 | 72.92 | 5.43 | 20 | |
| Aliphatic Hydrocarbon (C16-C21) | 81.2 | 10.0 | 125.0 | 0 | 64.9 | 50.3 | 123 | 78.21 | 3.71 | 20 | |
| Aliphatic Hydrocarbon (C21-C34) | 85.4 | 10.0 | 125.0 | 0 | 68.3 | 36.6 | 144 | 79.24 | 7.49 | 20 | |
| Surr: 1-Chlorooctadecane | 66.7 | | 100.0 | | 66.7 | 50 | 150 | | 0 | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCSD-42943 | SampType: LCSD | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89775 | | |
| Client ID: LCSS02 | Batch ID: 42943 | Analysis Date: 2/22/2024 | | | | | | | SeqNo: 1873789 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 118 | 20.0 | 250.0 | 0 | 47.1 | 18.6 | 130 | 119.9 | 1.81 | 20 | |
| Aromatic Hydrocarbon (C10-C12) | 83.5 | 10.0 | 125.0 | 0 | 66.8 | 42.7 | 105 | 82.42 | 1.29 | 20 | |
| Aromatic Hydrocarbon (C12-C16) | 98.3 | 10.0 | 125.0 | 0 | 78.6 | 43.6 | 124 | 92.52 | 6.06 | 20 | |
| Aromatic Hydrocarbon (C16-C21) | 96.0 | 10.0 | 125.0 | 0 | 76.8 | 49.5 | 124 | 89.59 | 6.88 | 20 | |
| Aromatic Hydrocarbon (C21-C34) | 79.6 | 10.0 | 125.0 | 0 | 63.7 | 54.8 | 124 | 81.21 | 1.99 | 20 | |
| Surr: o-Terphenyl | 68.2 | | 100.0 | | 68.2 | 50 | 150 | | 0 | | |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42804 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868715 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 19.6 | 2.50 | 20.00 | 0 | 98.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 8.87 | 2.50 | 10.00 | 0 | 88.7 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 48.7 | 2.50 | 50.00 | 0 | 97.5 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 9.91 | 2.50 | 10.00 | 0 | 99.1 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.41 | | 2.500 | | 96.3 | 60 | 140 | | | | |

| Sample ID: MB-42804 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868698 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 2.37 | | 2.500 | | 95.0 | 60 | 140 | | | | |

| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|--------|----------|------|
| Client ID: HA-2-S7 | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868703 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 104 | 18.3 | | 0 | 0 | | | 113.7 | 8.57 | 25 | D |
| Aliphatic Hydrocarbon (C6-C8) | 499 | 18.3 | | 0 | 0 | | | 498.5 | 0.0812 | 25 | D |
| Aliphatic Hydrocarbon (C8-C10) | 419 | 18.3 | | 0 | 0 | | | 395.4 | 5.80 | 25 | DE |
| Aliphatic Hydrocarbon (C10-C12) | 525 | 18.3 | | 0 | 0 | | | 505.0 | 3.86 | 25 | DE |
| Aromatic Hydrocarbon (C8-C10) | 1,810 | 18.3 | | 0 | 0 | | | 1,757 | 3.17 | 25 | D |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------------|-----------|-------------|------|----------------------------|-----------|-----------------------|---------------------|----------|------|
| Sample ID: 2402008-003BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
| Client ID: HA-2-S7 | Batch ID: 42804 | Analysis Date: 2/7/2024 | | | | | | SeqNo: 1868703 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 608 | 18.3 | | 0 | 0 | | | 596.1 | 1.91 | 25 | DE |
| Aromatic Hydrocarbon (C12-C13) | 208 | 18.3 | | 0 | 0 | | | 204.9 | 1.53 | 25 | D |
| Surr: 2,5-dibromotoluene | 19.0 | | 18.30 | | 104 | 60 | 140 | | 0 | 0 | D |

| Sample ID: 2402008-005BMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
|----------------------------------|------------------------|--------------------------------|-----------|-------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-23D-S6 | Batch ID: 42804 | Analysis Date: 2/7/2024 | | | | | | | SeqNo: 1868705 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 24.0 | 1.67 | 13.35 | 10.72 | 99.7 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C6-C8) | 18.6 | 1.67 | 6.673 | 11.16 | 111 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C8-C10) | 73.0 | 1.67 | 6.673 | 67.05 | 89.0 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C10-C12) | 152 | 1.67 | 6.673 | 148.0 | 63.0 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C8-C10) | 143 | 1.67 | 33.36 | 111.3 | 95.5 | 70 | 130 | | | | H |
| Aromatic Hydrocarbon (C10-C12) | 141 | 1.67 | 6.673 | 139.7 | 15.6 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C12-C13) | 74.3 | 1.67 | 6.673 | 69.70 | 68.8 | 70 | 130 | | | | SH |
| Surr: 2,5-dibromotoluene | 1.82 | | 1.668 | | 109 | 60 | 140 | | | | H |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample Log-In Check List

Client Name: FB
 Logged by: Morgan Wilson

Work Order Number: 2402008
 Date Received: 2/1/2024 9:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 0.6 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402 008

Send Report To Michael Erdahl

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

| SUBCONTRACTOR Fremont | |
|-------------------------------|-------|
| PROJECT NAME/NO. | PO # |
| 401358 | D-655 |
| REMARKS EIM and EQuIS4 | |

TURNAROUND TIME

☒ Standard TAT

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

[illegible]



Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|--------|------|
|  | Michael Erdahl | Friedman & Bruya | 2/1/24 | 0845 |
| Received by:  | Nathan Woffles | FAT | 2/1/24 | 430 |
| Relinquished by: | | | | |
| Received by: | | | | |



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401358
Work Order Number: 2401541

February 06, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 10 sample(s) on 1/30/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401358
Work Order: 2401541

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2401541-001 | HA-1-S2 | 01/26/2024 9:35 AM | 01/30/2024 12:10 PM |
| 2401541-002 | HA-1-S4 | 01/26/2024 10:55 AM | 01/30/2024 12:10 PM |
| 2401541-003 | HA-1-S6 | 01/26/2024 2:30 PM | 01/30/2024 12:10 PM |
| 2401541-004 | HA-1-Dup | 01/26/2024 3:00 PM | 01/30/2024 12:10 PM |
| 2401541-005 | HA-2-S3 | 01/24/2024 1:40 PM | 01/30/2024 12:10 PM |
| 2401541-006 | HA-2-S5 | 01/24/2024 2:55 PM | 01/30/2024 12:10 PM |
| 2401541-007 | HA-2-S7 | 01/24/2024 10:45 AM | 01/30/2024 12:10 PM |
| 2401541-008 | MW-23D-S4 | 01/22/2024 12:10 PM | 01/30/2024 12:10 PM |
| 2401541-009 | MW-23D-S6 | 01/22/2024 3:10 PM | 01/30/2024 12:10 PM |
| 2401541-010 | MW-23D-Dup | 01/22/2024 3:30 PM | 01/30/2024 12:10 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 401358

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-001

Client Sample ID: HA-1-S2

Collection Date: 1/26/2024 9:35:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|----------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 12:50:00 PM |
|----------------------|----|-------|--|-------|---|----------------------|

Lab ID: 2401541-002

Client Sample ID: HA-1-S4

Collection Date: 1/26/2024 10:55:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:04:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-003

Client Sample ID: HA-1-S6

Collection Date: 1/26/2024 2:30:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:17:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-004

Client Sample ID: HA-1-Dup

Collection Date: 1/26/2024 3:00:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:31:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-005

Client Sample ID: HA-2-S3

Collection Date: 1/24/2024 1:40:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 2:58:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-006

Client Sample ID: HA-2-S5

Collection Date: 1/24/2024 2:55:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:12:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-007

Client Sample ID: HA-2-S7

Collection Date: 1/24/2024 10:45:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:25:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-008

Client Sample ID: MW-23D-S4

Collection Date: 1/22/2024 12:10:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:42:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-009

Client Sample ID: MW-23D-S6

Collection Date: 1/22/2024 3:10:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:53:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-010

Client Sample ID: MW-23D-Dup

Collection Date: 1/22/2024 3:30:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 4:11:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: 2401541
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-42791 | SampType: MBLK | Units: %-dry | | Prep Date: 2/1/2024 | RunNo: 89413 | | | | | | |
| Client ID: MBLKS | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | SeqNo: 1866871 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.150 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-42791 | SampType: LCS | Units: %-dry | | Prep Date: 2/1/2024 | RunNo: 89413 | | | | | | |
| Client ID: LCSS | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | SeqNo: 1866873 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.02 | 0.150 | 1.000 | 0 | 102 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2401522-001ADUP | SampType: DUP | Units: %-dry | | Prep Date: 2/1/2024 | RunNo: 89413 | | | | | | |
| Client ID: BATCH | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | SeqNo: 1866874 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 0.541 | 0.150 | | | | | | 0.4766 | 12.7 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2401522-001AMS | SampType: MS | Units: %-dry | | Prep Date: 2/1/2024 | RunNo: 89413 | | | | | | |
| Client ID: BATCH | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | SeqNo: 1866875 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.61 | 0.150 | 1.000 | 0.4766 | 113 | 75 | 125 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2401522-001AMSD | SampType: MSD | Units: %-dry | | Prep Date: 2/1/2024 | RunNo: 89413 | | | | | | |
| Client ID: BATCH | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | SeqNo: 1866876 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.87 | 0.150 | 1.000 | 0.4766 | 140 | 75 | 125 | 1.607 | 15.3 | 20 | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2401541
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2401557-001ADUP | | SampType: DUP | | | Units: %-dry | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | |
| Client ID: BATCH | | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866891 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 7.96 | 0.150 | | | | | | 13.29 | 50.2 | 20 | E | |

Sample Log-In Check List

Client Name: FB

Work Order Number: 2401541

Logged by: Morgan Wilson

Date Received: 1/30/2024 12:10:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2401541

Page # _____ of _____

SUBCONTRACTOR
Fremont

PROJECT NAME/NO.

401358

PO #

D-655mg

REMARKS

EIM & EquiS4

TURNAROUND TIME

☒ Standard

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Send Report To Michael ErdahlCompany Friedman and Bruya, Inc.Address 3012 16th Ave WCity, State, ZIP Seattle, WA 98119Phone # (206) 285-8282 merdahl@friedmanandbruya.com

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | COC | ANALYSES REQUESTED | | | | | | | | | | Notes |
|----------------------------|--------|--------------|--------------|--------|-----------|-----|--------------------|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | |
| HA-1-S2 | | 1/26/2024 | 935 | soil | 1 | x | | | | | | | | | | | |
| HA-1-S4 | | 1/26/2024 | 1055 | soil | 1 | x | | | | | | | | | | | |
| HA-1-S6 | | 1/26/2024 | 1430 | soil | 1 | x | | | | | | | | | | | |
| HA-1-Dup | | 1/26/2024 | 1500 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S3 | | 1/24/2024 | 1340 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S5 | | 1/24/2024 | 1455 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S7 HA-2-S7 | | 1/25/2024 | 1045 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-S4 | | 1/22/2024 | 1210 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-S6 | | 1/22/2024 | 1510 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-Dup | | 1/22/2024 | 1530 | soil | 1 | x | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Mac Goldman

Friedman and Bruya

6/30

9:55

Received by: [Signature]

N/A Rts

FAD

1/30

12:10

Ph. (206) 285-8282

Relinquished by: _____

Fax (206) 283-5044

Received by: _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 27, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the additional results from the testing of material submitted on February 6, 2024 from the Whidbey Marine 0204475-001, F&BI 402067 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0227R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402067 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402067 -01 | MW-1S |
| 402067 -02 | MW-3S |
| 402067 -03 | MW-22D |
| 402067 -04 | MW-23D |

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-04 1/50 |
| Date Analyzed: | 02/19/24 | Data File: | 021931.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 71 | 132 |
| Toluene-d8 | 97 | 68 | 139 |
| 4-Bromofluorobenzene | 108 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <50 | 1,3-Dichloropropane | <50 |
| Chloromethane | <500 ca | Tetrachloroethene | <2.5 j |
| Vinyl chloride | <1 | Dibromochloromethane | <25 |
| Bromomethane | <250 | 1,2-Dibromoethane (EDB) | <20 |
| Chloroethane | <50 | Chlorobenzene | <50 |
| Trichlorofluoromethane | <50 | Ethylbenzene | 1,300 |
| Acetone | <2,500 ca | 1,1,1,2-Tetrachloroethane | <50 |
| 1,1-Dichloroethene | <50 | m,p-Xylene | 4,600 |
| Hexane | <250 | o-Xylene | 1,100 |
| Methylene chloride | <250 | Styrene | <50 |
| Methyl t-butyl ether (MTBE) | <50 | Isopropylbenzene | <50 |
| trans-1,2-Dichloroethene | <50 | Bromoform | <250 |
| 1,1-Dichloroethane | <50 | n-Propylbenzene | 75 |
| 2,2-Dichloropropane | <50 | Bromobenzene | <50 |
| cis-1,2-Dichloroethene | <50 | 1,3,5-Trimethylbenzene | 200 |
| Chloroform | <50 | 1,1,2,2-Tetrachloroethane | <10 |
| 2-Butanone (MEK) | <1,000 ca | 1,2,3-Trichloropropane | <50 |
| 1,2-Dichloroethane (EDC) | <10 | 2-Chlorotoluene | <50 |
| 1,1,1-Trichloroethane | <50 | 4-Chlorotoluene | <50 |
| 1,1-Dichloropropene | <50 | tert-Butylbenzene | <50 |
| Carbon tetrachloride | <25 | 1,2,4-Trimethylbenzene | 560 |
| Benzene | 10 j | sec-Butylbenzene | <50 |
| Trichloroethene | <1.5 j | p-Isopropyltoluene | <50 |
| 1,2-Dichloropropane | <50 | 1,3-Dichlorobenzene | <50 |
| Bromodichloromethane | <25 | 1,4-Dichlorobenzene | <50 |
| Dibromomethane | <50 | 1,2-Dichlorobenzene | <50 |
| 4-Methyl-2-pentanone | <500 | 1,2-Dibromo-3-chloropropane | <500 |
| cis-1,3-Dichloropropene | <20 | 1,2,4-Trichlorobenzene | <50 |
| Toluene | 14,000 ve | Hexachlorobutadiene | <25 |
| trans-1,3-Dichloropropene | <20 | Naphthalene | 270 |
| 1,1,2-Trichloroethane | <25 | 1,2,3-Trichlorobenzene | <50 ca |
| 2-Hexanone | <500 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 04-0284 mb |
| Date Analyzed: | 02/07/24 | Data File: | 020709.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.05 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.05 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.03 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402068-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 99 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 103 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 99 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 94 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 79 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 44 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 91 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 92 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 84 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 91 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 87 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 96 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 88 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 101 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 87 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | 3.6 | 95 b | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 105 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 93 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 86 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 108 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 114 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 105 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 93 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 105 | 104 | 46-206 | 1 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 103 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 99 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 93 | 102 | 50-197 | 9 |
| Chloroethane | ug/L (ppb) | 10 | 97 | 96 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 87 | 75 | 51-159 | 15 |
| Acetone | ug/L (ppb) | 50 | 51 | 52 | 10-140 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 90 | 90 | 64-140 | 0 |
| Hexane | ug/L (ppb) | 10 | 100 | 102 | 54-136 | 2 |
| Methylene chloride | ug/L (ppb) | 10 | 97 | 93 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 97 | 96 | 64-148 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Chloroform | ug/L (ppb) | 10 | 87 | 90 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 75 | 89 | 47-112 | 17 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 89 | 88 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 102 | 101 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 90 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| Bromodichloromethane | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromomethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 103 | 105 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 96 | 69-131 | 4 |
| Toluene | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 91 | 90 | 45-138 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 110 | 103 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 101 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| Chlorobenzene | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| m,p-Xylene | ug/L (ppb) | 20 | 96 | 96 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 92 | 91 | 70-130 | 1 |
| Styrene | ug/L (ppb) | 10 | 91 | 88 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| Bromoform | ug/L (ppb) | 10 | 119 | 111 | 69-138 | 7 |
| n-Propylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 126 | 122 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 118 | 114 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 119 | 117 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 99 | 105 | 70-130 | 6 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 111 | 70-130 | 10 |
| Naphthalene | ug/L (ppb) | 10 | 113 | 119 | 70-130 | 5 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 106 | 114 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402067

SAMPLE CHAIN OF CUSTODY

02/06/24

vw4/KS/F31

Report To H. Good, V. Pehlivan

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) 

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

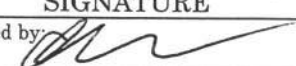
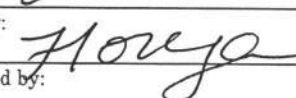
☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|-------------|---------------|---------------|--------|------------------------------|-----|-----|---------------|---------------------|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | Geochemical | VOCs EPA 8260 | PAHs EPA 8270 | CLVOCs | NWTPH-Dx w/ Gluc gel cleanup | TOC | TSS | Tot, Dx As+Pb | |
| MW-15 | 01 A-G | 4/5/24 | 1430 | water | 7 | X | X | X | | | | X | X | | | | Geochemical |
| MW-35 | 02 A-G | | 1200 | | 7 | X | X | X | | | | X | X | | | | parameters |
| MW-22D | 03 A-O | | 1540 | | 17 | X | X | | X | X | X | | X | X | X | X | nitrate, nitrite |
| MW-23D | 04 A-G | ✓ | 1240 | ✓ | 16 | X | X | | X | X | X | | X | X | X | X | ammonia, chloride |
| | | | | | | | | | | | | | | | | | sulfate, alkali/met |
| | | | | | | | | | | | | | | | | | sulfide, MEE |
| | | | | | | | | | | | | | | | | | dissolved met |
| | | | | | | | | | | | | | | | | | Manganese |
| | | | | | | | | | | | | | | | | | include Dx, -O |
| | | | | | | | | | | | | | | | | | Chromatograms |

NO Fe per H6 2/7/24 ME

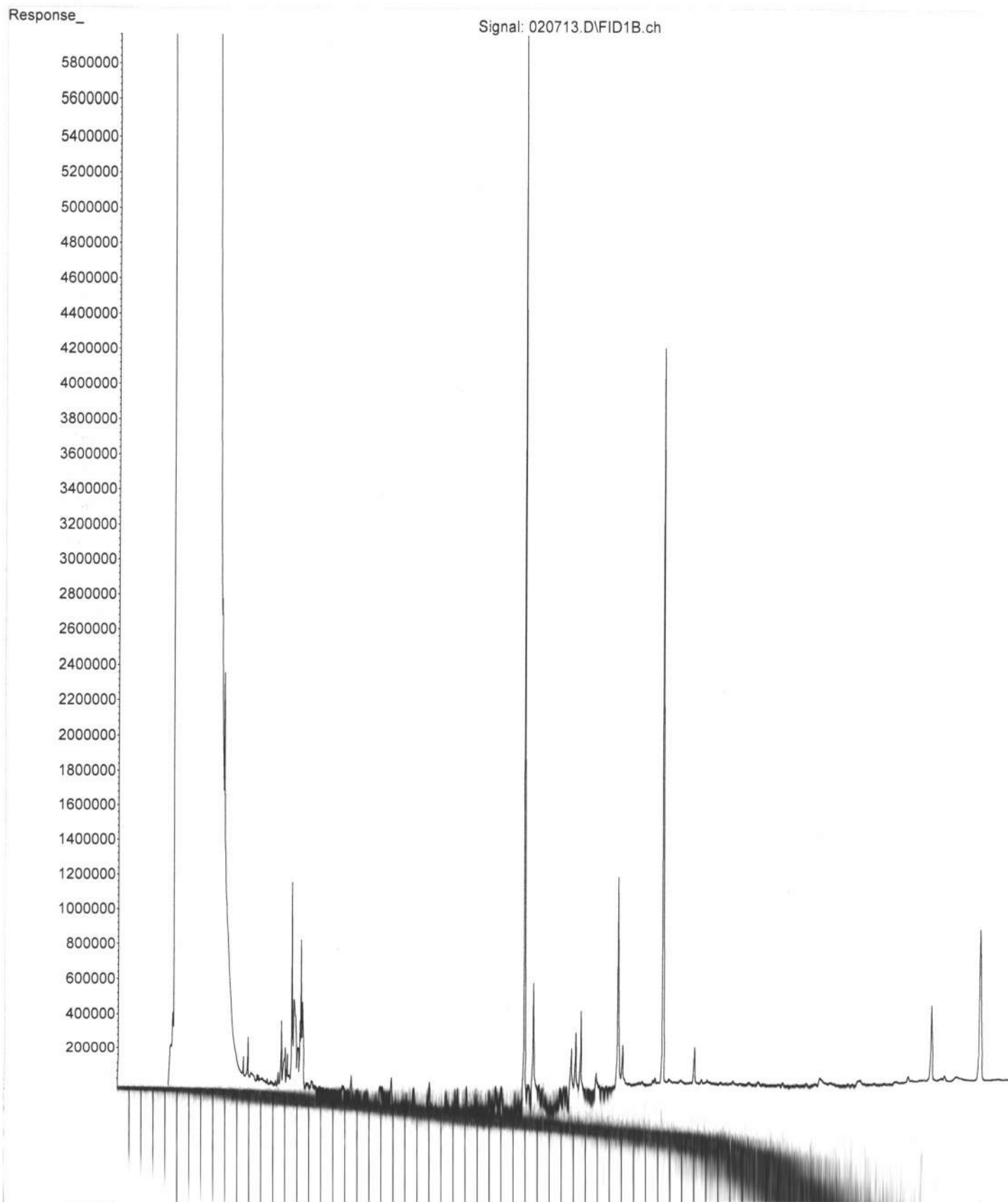
Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------|--------|-------|
| Relinquished by:  | Andrew Nakshorn | HA | 4/6/24 | 1220 |
| Received by:  | HONG NGUYEN | FBI | 4/6/24 | 12:20 |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples received at 4 °C

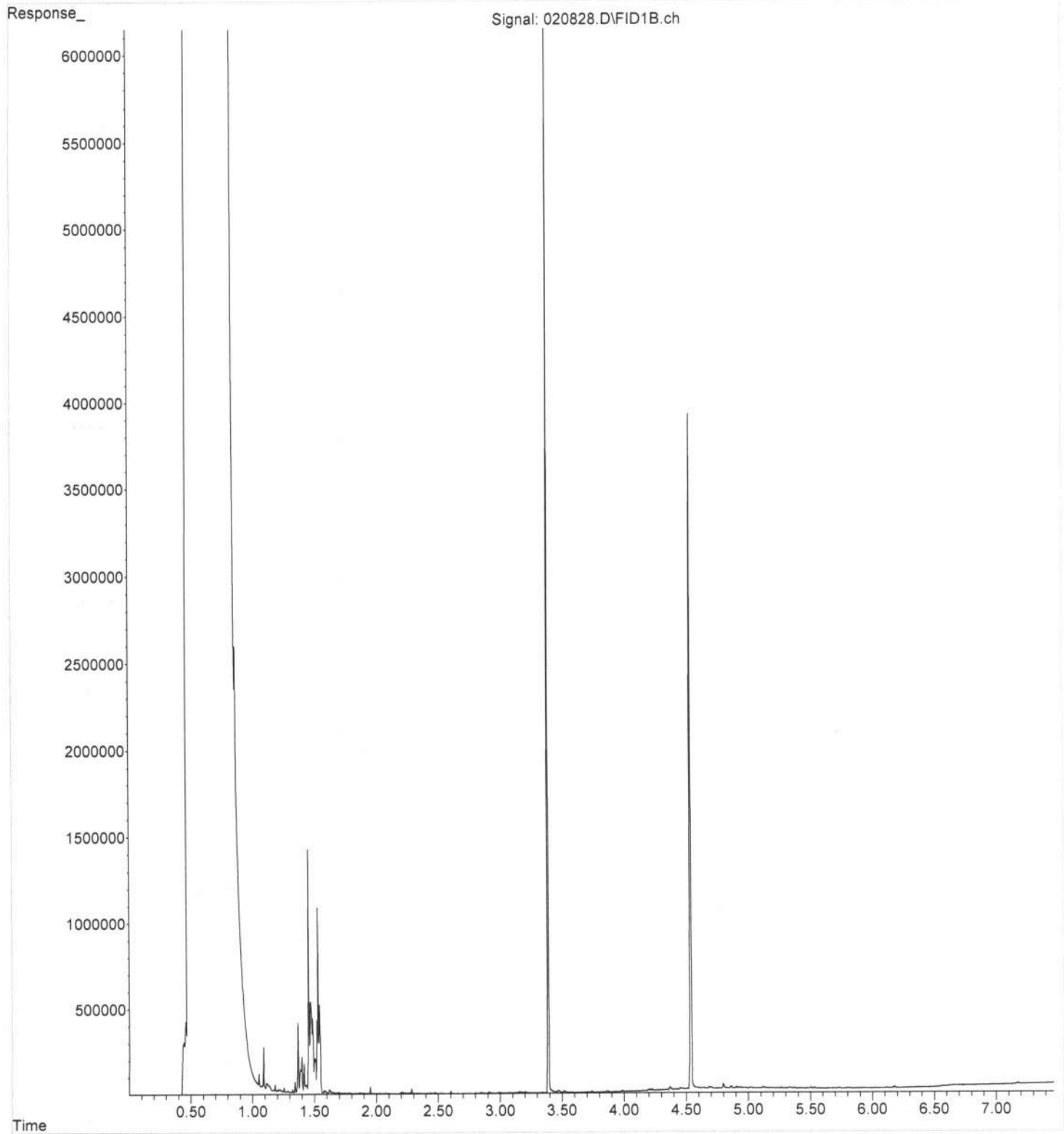
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Operator : TL
Acquired : 07 Feb 2024 03:29 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01
Misc Info :
Vial Number: 13

ERR



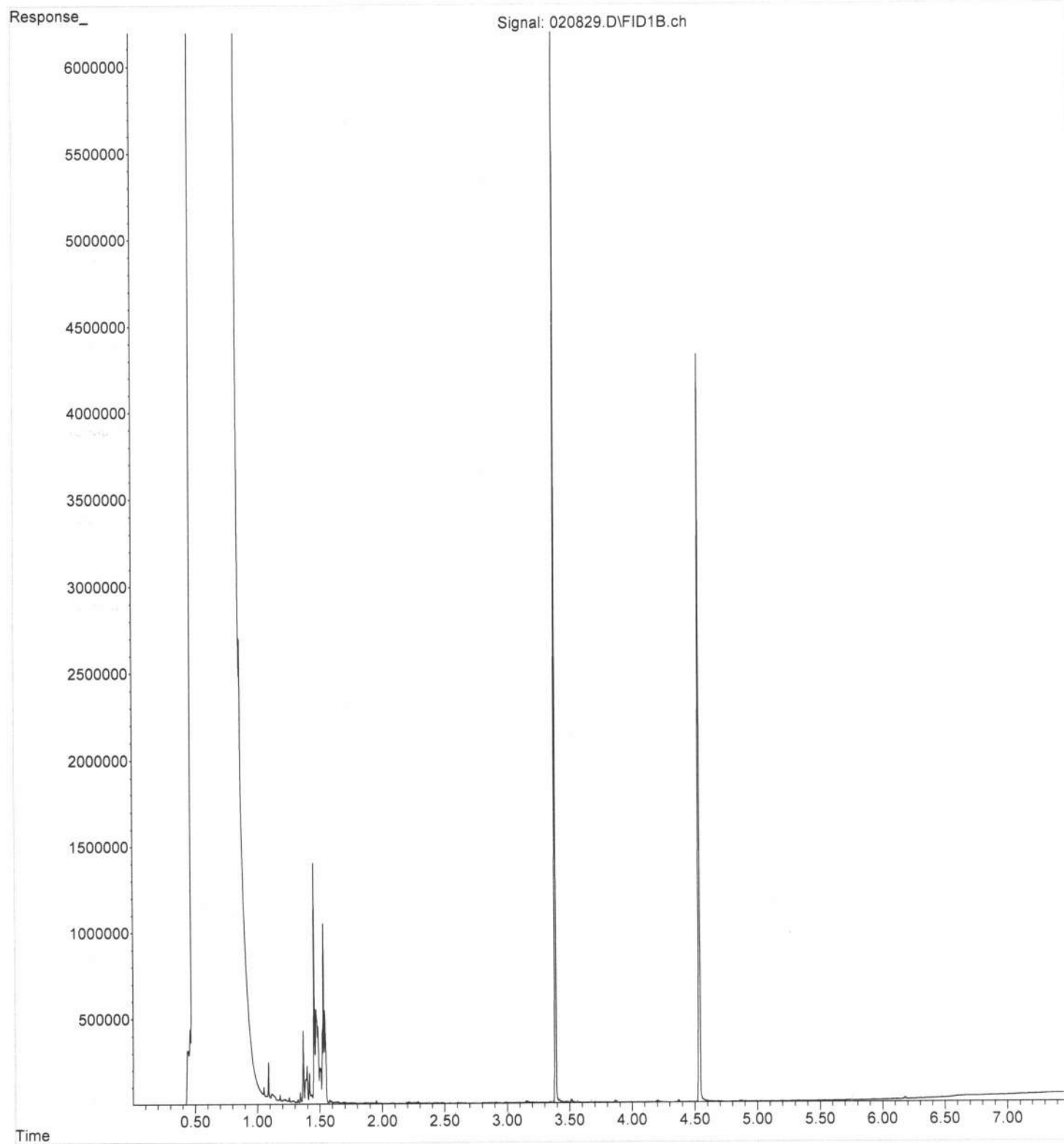
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Operator : TL
Acquired : 08 Feb 2024 05:08 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01 sg
Misc Info :
Vial Number: 23

ERR



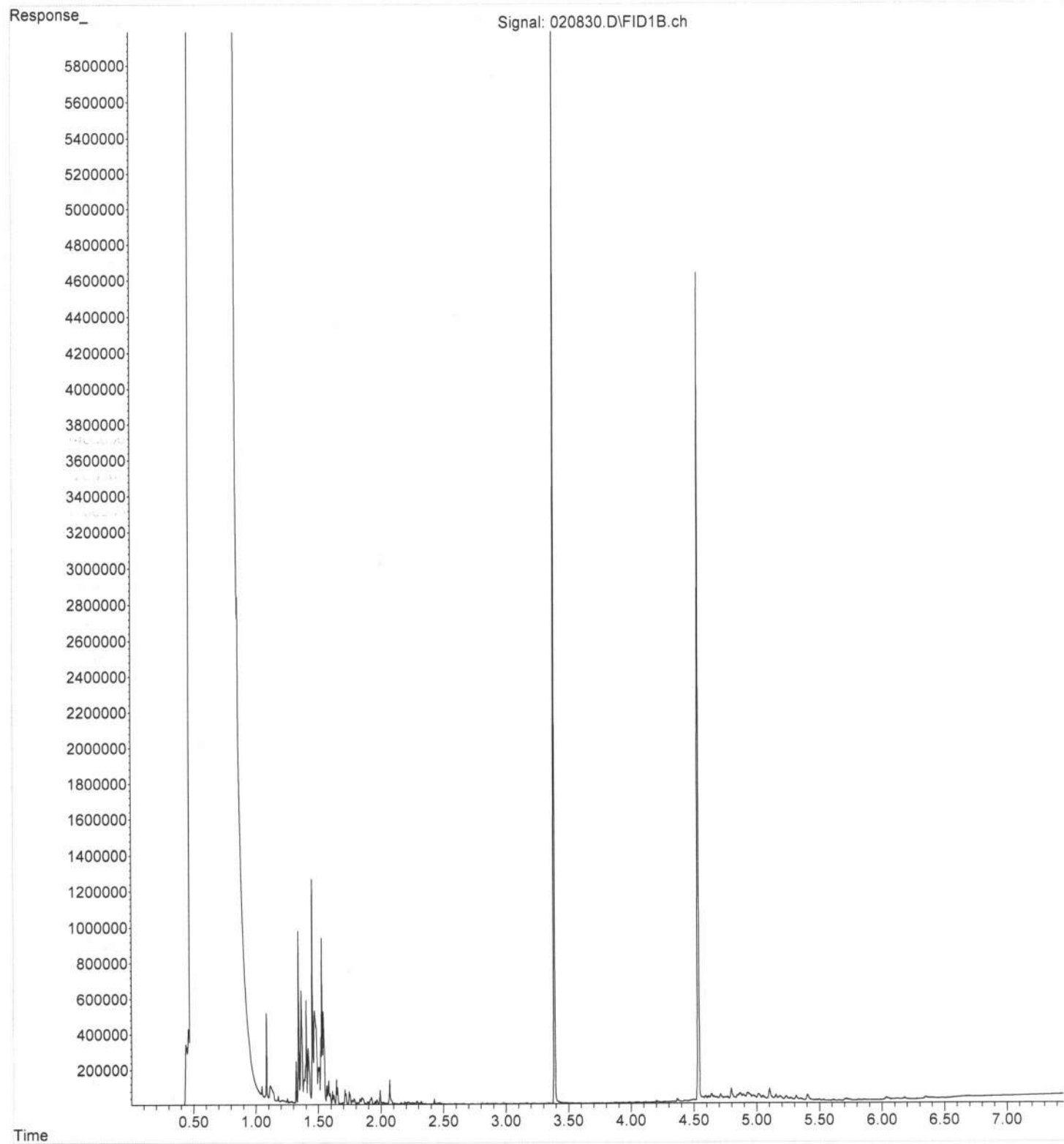
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Acquired : 08 Feb 2024 05:20 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-02 sg
Misc Info :
Vial Number: 24

ERR



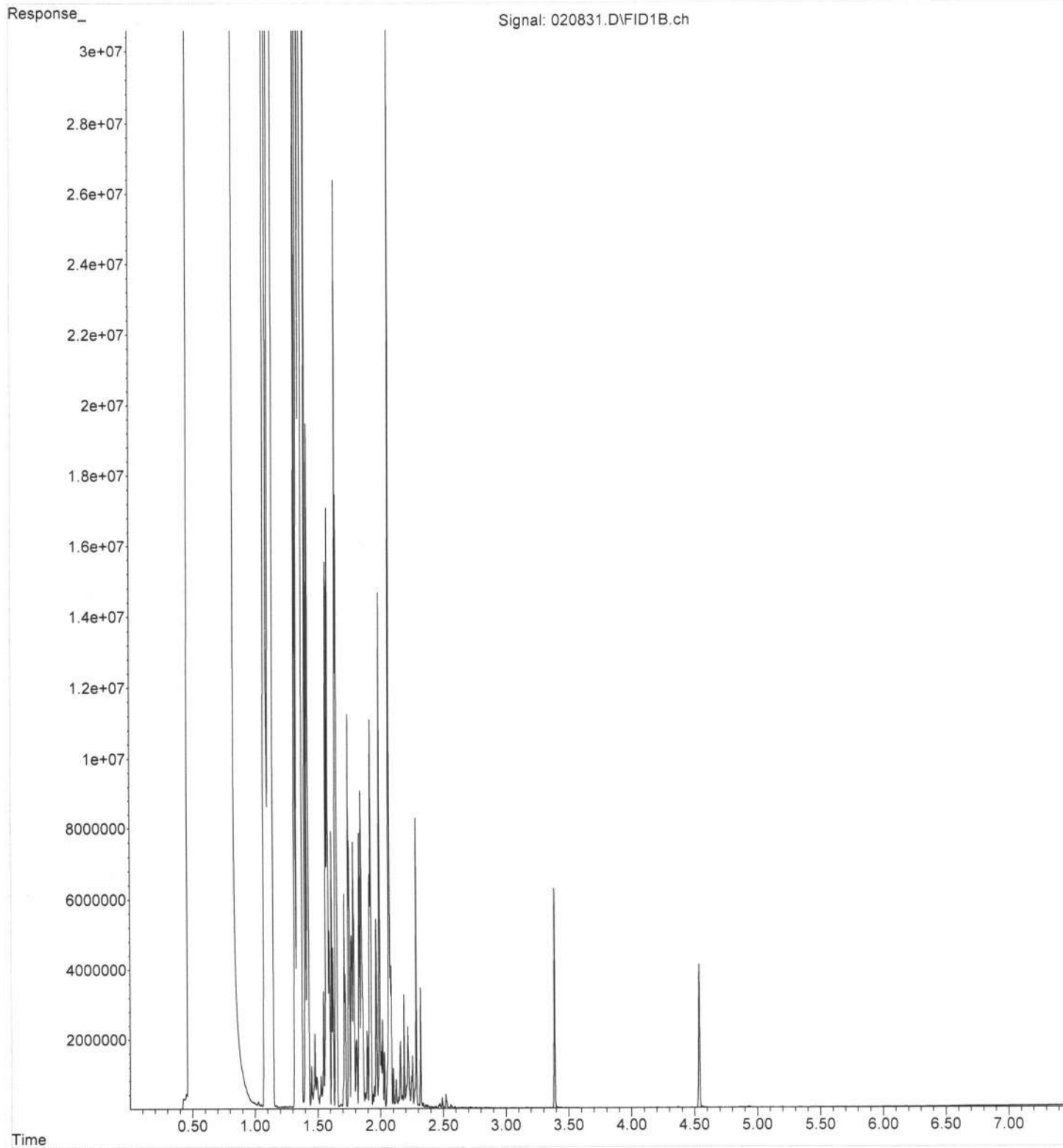
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Instrument : GC14
Sample Name: 402067-03 sg
Misc Info :
Vial Number: 25

ERR



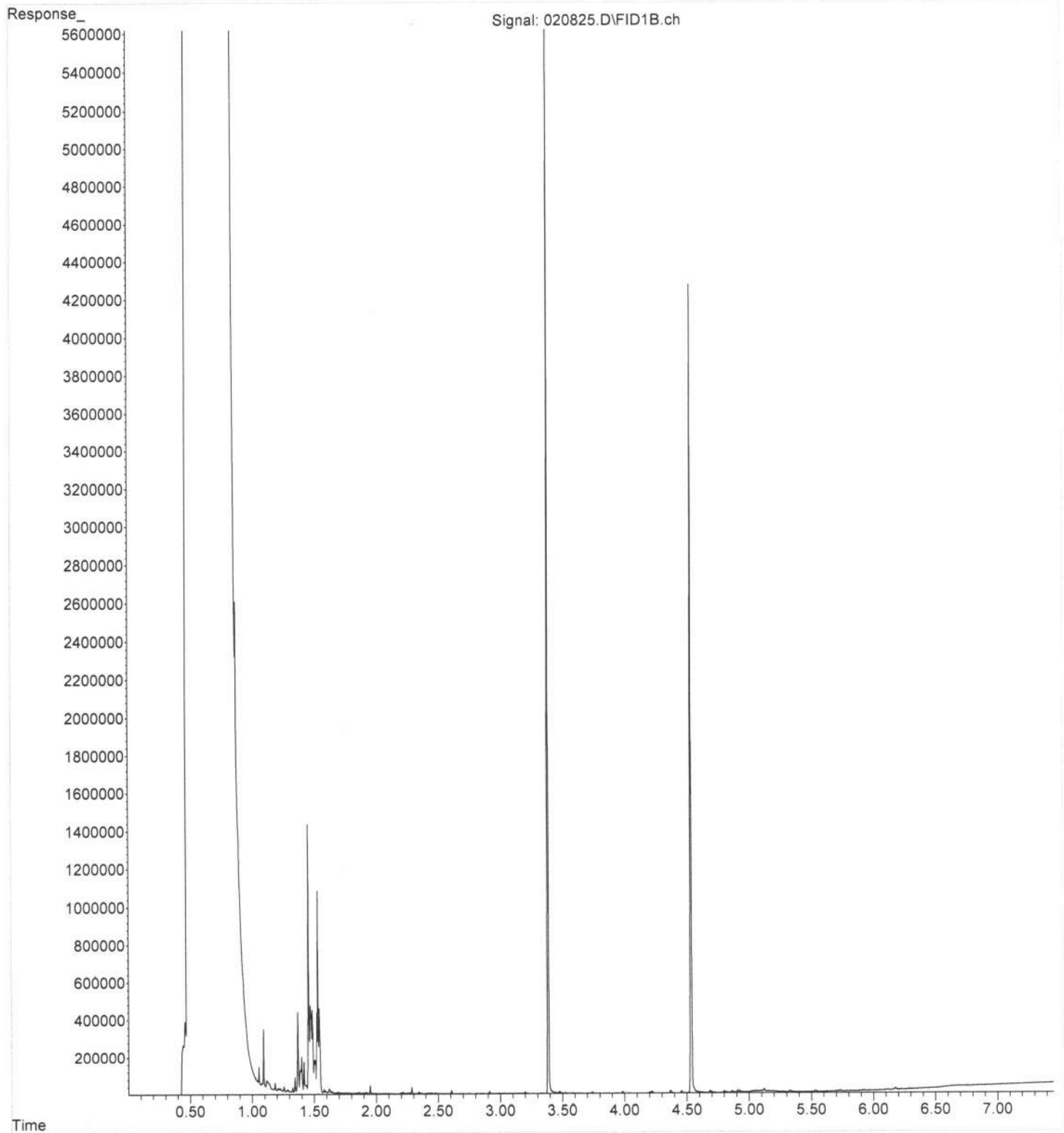
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Operator : TL
Acquired : 08 Feb 2024 05:43 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-04 sg
Misc Info :
Vial Number: 26

ERR



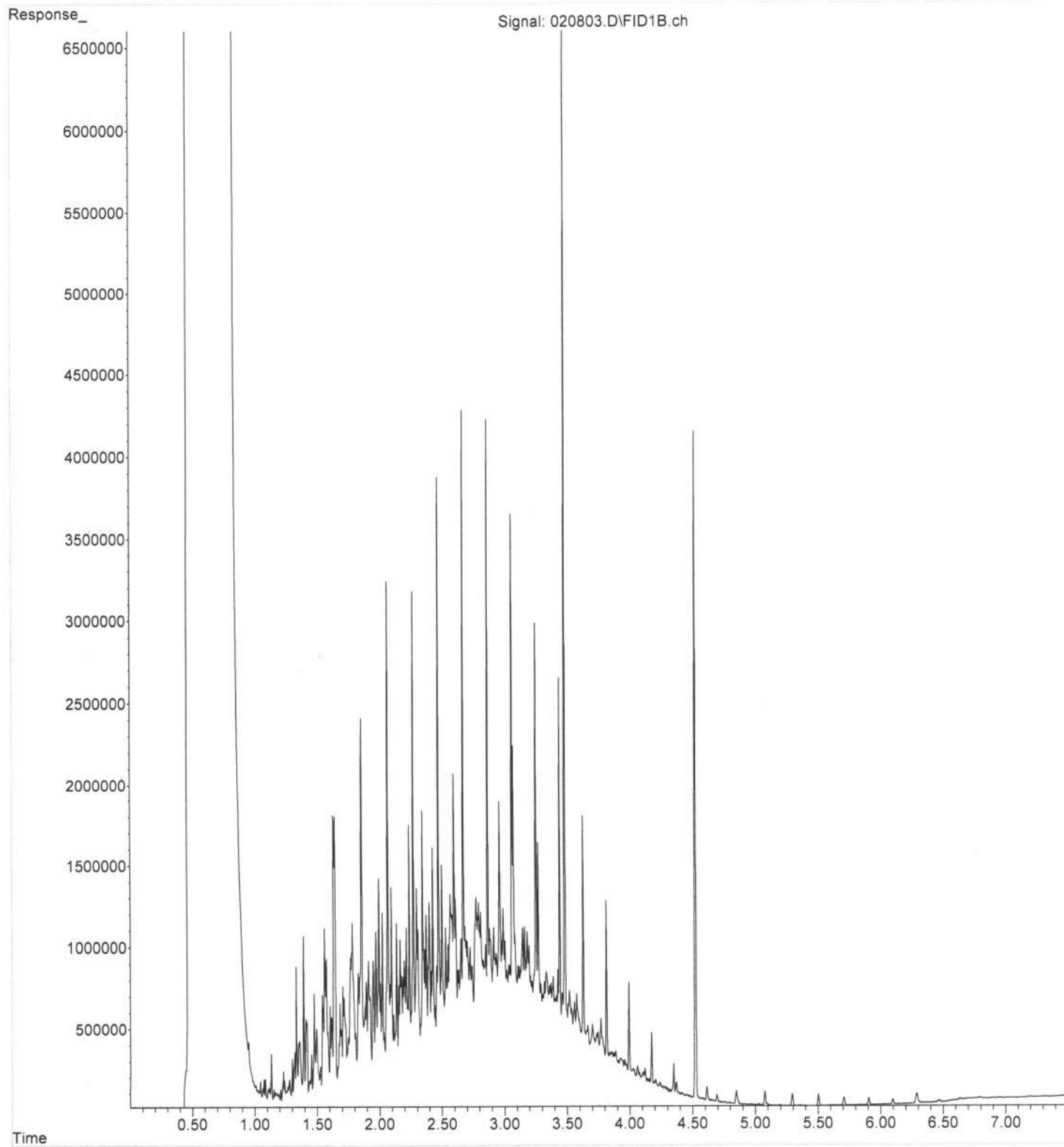
File :P:\Proc_GC14\02-08-24\020825.D
Operator : TL
Acquired : 08 Feb 2024 04:33 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-325 mb sg
Misc Info :
Vial Number: 20

ERR



File :P:\Proc_GC14\02-08-24\020803.D
Operator : TL
Acquired : 08 Feb 2024 09:00 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402067
Work Order Number: 2402085

February 13, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 2/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402067
Work Order: 2402085

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402085-001 | MW-22D | 02/05/2024 3:40 PM | 02/06/2024 3:40 PM |
| 2402085-002 | MW-23D | 02/05/2024 12:40 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 402067

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-001

Collection Date: 2/5/2024 3:40:00 PM

Client Sample ID: MW-22D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89591 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42841 | | Analyst: SLL |
| Chloride | 6.32 | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Sulfate | 7.03 | 3.00 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.48 | 0.700 | | mg/L | 1 | 2/8/2024 9:12:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89571 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 147 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:42:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

Work Order: **2402085**
Date Reported: **2/13/2024**

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-002

Collection Date: 2/5/2024 12:40:00 PM

Client Sample ID: MW-23D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R89591 Analyst: LB

| | | | | | | |
|---------|--------|---------|--|------|---|----------------------|
| Methane | 0.0599 | 0.00675 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 1:02:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 42841 Analyst: SLL

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Chloride | 27.1 | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Sulfate | ND | 3.00 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R89535 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|---------------------|
| Total Organic Carbon | 11.3 | 0.700 | | mg/L | 1 | 2/8/2024 9:45:00 PM |
|----------------------|------|-------|--|------|---|---------------------|

Total Alkalinity by SM 2320B

Batch ID: R89571 Analyst: SS

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 244 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 42892 Analyst: FG

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:47:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R89559 Analyst: FG

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0672 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89571 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MBLKW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869827 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | ND | 2.50 | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89571 | | SampType: LCS | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: LCSW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869828 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 108 | 2.50 | 100.0 | 0 | 108 | 86.2 | 126.2 | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MW-22D | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869830 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 153 | 2.50 | | | | | 146.5 | 4.54 | 20 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: MBLKW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869931 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: LCSW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869932 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869934 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869935 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869936 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42841 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/6/2024 | | | | RunNo: 89464 | | |
| Client ID: MBLKW | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | | SeqNo: 1867805 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-42841 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: LCSW | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867806 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.736 | 0.120 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Nitrite (as N) | 0.716 | 0.120 | 0.7500 | 0 | 95.5 | 90 | 110 | | | | |
| Nitrate (as N) | 0.744 | 0.100 | 0.7500 | 0 | 99.2 | 90 | 110 | | | | |
| Sulfate | 3.57 | 0.600 | 3.750 | 0 | 95.1 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867808 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|------|----|--|
| Chloride | 0.211 | 0.120 | | | | | | 0.2080 | 1.43 | 20 | |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.162 | 0.100 | | | | | | 0.1600 | 1.24 | 20 | |
| Sulfate | ND | 0.600 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|-------|----|-----|--|--|--|----|
| Chloride | 31.5 | 0.120 | 0.7500 | 0.2080 | 4,180 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.735 | 0.120 | 0.7500 | 0 | 98.0 | 80 | 120 | | | | |
| Nitrate (as N) | 1.06 | 0.100 | 0.7500 | 0.1600 | 120 | 80 | 120 | | | | S |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|----------|------|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 9.73 | 0.600 | 3.750 | 0.2550 | 253 | 80 | 120 | | | | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2401588-001BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | Batch ID: 42841 | | | | Analysis Date: 2/6/2024 | | | SeqNo: 1867810 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 31.4 | 0.120 | 0.7500 | 0.2080 | 4,160 | 80 | 120 | 31.53 | 0.346 | 20 | ES |
| Nitrite (as N) | 0.727 | 0.120 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7350 | 1.09 | 20 | |
| Nitrate (as N) | 1.05 | 0.100 | 0.7500 | 0.1600 | 119 | 80 | 120 | 1.061 | 0.947 | 20 | |
| Sulfate | 9.59 | 0.600 | 3.750 | 0.2550 | 249 | 80 | 120 | 9.733 | 1.48 | 20 | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: MB-R89559 | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MBLKW | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869569 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: LCS-R89559 | SampType: LCS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: LCSW | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869570 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.221 | 0.0500 | 0.2000 | 0 | 111 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2402085-002CDUP | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869626 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.0614 | 0.0500 | | | | | | 0.06724 | 9.01 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2402085-002CMS | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869627 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.279 | 0.0500 | 0.2000 | 0.06724 | 106 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2402085-002CMSD | SampType: MSD | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869628 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.292 | 0.0500 | 0.2000 | 0.06724 | 112 | 80 | 120 | 0.2793 | 4.46 | 20 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869640 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-R89535 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869134 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R89535 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: LCSW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869135 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 5.05 | 0.700 | 5.000 | 0 | 101 | 90 | 116 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|------------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402046-001ADUP | SampType: DUP | Units: mg/L-dry | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869138 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 22.0 | 2.24 | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869139 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.5 | 0.700 | 5.000 | 7.032 | 88.9 | 41.1 | 150 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869140 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.8 | 0.700 | 5.000 | 7.032 | 94.5 | 41.1 | 150 | 11.48 | 2.44 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: CCB-D | SampType: MBLK | Units: mg/L | | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | | |
| Client ID: MBLKW | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | SeqNo: 1869461 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402100-001CDUP | SampType: DUP | Units: mg/L | | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | SeqNo: 1869477 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402100-001CMS | SampType: MS | Units: mg/L | | Prep Date: 2/10/2024 | RunNo: 89535 | | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | | Analysis Date: 2/10/2024 | SeqNo: 1869438 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89591 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: LCSW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870309 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 964 | 0.00675 | 1,000 | 0 | 96.4 | 73.6 | 124 | | | | |
| Ethene | 962 | 0.0146 | 1,000 | 0 | 96.2 | 76.3 | 122 | | | | |
| Ethane | 1,010 | 0.0151 | 1,000 | 0 | 101 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R89591 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: MBLKW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870308 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402099-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: BATCH | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870287 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|---------|--|--|--|--|--|-------|------|----|---|
| Methane | 3.33 | 0.00675 | | | | | | 3.177 | 4.57 | 30 | E |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402085
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402085

Fremont

PO #

402067

402067

D-661

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Phone # (206) 285-8282 merdahl@friedmanandbruya.com



TURNAROUND TIME

☒ Standard TAT
RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|--------|------|
|  | Michael Erdahl | Friedman & Bruya | 2/6/24 | 1245 |
| Received by:  | Nathan Wolff | FAI | 2/6/24 | 1540 |
| Relinquished by: | | | | |
| Received by: | | | | |

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 16, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on August 6, 2024 from the Whidbey Marine 0204475, F&BI 408088 project. There are 46 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0816R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475, F&BI 408088 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 408088 -01 | MW-12D |
| 408088 -02 | MW-18D |
| 408088 -03 | MW-23D |
| 408088 -04 | MW-19D |
| 408088 -05 | MW-21D |
| 408088 -06 | MW-22D |

Samples MW-12D, MW-18D, MW-23D, and MW-21D were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard did not meet the acceptance criteria for acetone. The data were flagged accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

Date Extracted: 08/07/24

Date Analyzed: 08/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-12D 408088-01 1/40 | 55,000 | 105 |
| MW-18D 408088-02 | <100 | 97 |
| MW-23D 408088-03 1/100 | 71,000 | 105 |
| MW-19D 408088-04 | <100 | 94 |
| MW-21D 408088-05 | 1,300 | 111 |
| MW-22D 408088-06 | <100 | 105 |
| Method Blank 04-1741 MB | <100 | 84 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

Date Extracted: 08/07/24

Date Analyzed: 08/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-12D 408088-01 | 4,300 x | <250 | 92 |
| MW-18D 408088-02 1/1.2 | 91 x | <300 | 93 |
| MW-23D 408088-03 1/1.2 | 5,500 x | <300 | 89 |
| MW-19D 408088-04 | 72 x | <250 | 103 |
| MW-21D 408088-05 | 270 x | <250 | 105 |
| MW-22D 408088-06 | <50 | <250 | 101 |
| Method Blank 04-1875 MB2 | <50 | <250 | 97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-01 1/50 |
| Date Analyzed: | 08/09/24 | Data File: | 080940.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 99 | 84 | 115 |
| 4-Bromofluorobenzene | 99 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <50 | 1,3-Dichloropropane | <50 |
| Chloromethane | <500 | Tetrachloroethene | 15 j |
| Vinyl chloride | <1 | Dibromochloromethane | <25 |
| Bromomethane | <250 | 1,2-Dibromoethane (EDB) | <0.5 |
| Chloroethane | <50 | Chlorobenzene | <50 |
| Trichlorofluoromethane | <50 | Ethylbenzene | 2,000 |
| Acetone | <2,500 ca | 1,1,1,2-Tetrachloroethane | <50 |
| 1,1-Dichloroethene | <50 | m,p-Xylene | 7,400 |
| Hexane | <250 | o-Xylene | 3,100 |
| Methylene chloride | <250 | Styrene | <50 |
| Methyl t-butyl ether (MTBE) | <50 | Isopropylbenzene | 65 |
| trans-1,2-Dichloroethene | <50 | Bromoform | <250 |
| 1,1-Dichloroethane | <50 | n-Propylbenzene | 180 |
| 2,2-Dichloropropane | <50 | Bromobenzene | <50 |
| cis-1,2-Dichloroethene | <50 | 1,3,5-Trimethylbenzene | 580 |
| Chloroform | <50 | 1,1,2,2-Tetrachloroethane | <10 |
| 2-Butanone (MEK) | <1,000 | 1,2,3-Trichloropropane | <50 |
| 1,2-Dichloroethane (EDC) | <10 | 2-Chlorotoluene | <50 |
| 1,1,1-Trichloroethane | <50 | 4-Chlorotoluene | <50 |
| 1,1-Dichloropropene | <50 | tert-Butylbenzene | <50 |
| Carbon tetrachloride | <25 | 1,2,4-Trimethylbenzene | 2,200 |
| Benzene | <1.7 j | sec-Butylbenzene | <50 |
| Trichloroethene | <1.2 j | p-Isopropyltoluene | <50 |
| 1,2-Dichloropropane | <50 | 1,3-Dichlorobenzene | <50 |
| Bromodichloromethane | <25 | 1,4-Dichlorobenzene | <50 |
| Dibromomethane | <50 | 1,2-Dichlorobenzene | <50 |
| 4-Methyl-2-pentanone | <500 | 1,2-Dibromo-3-chloropropane | <500 |
| cis-1,3-Dichloropropene | <20 | 1,2,4-Trichlorobenzene | <50 |
| Toluene | 3,900 | Hexachlorobutadiene | <25 |
| trans-1,3-Dichloropropene | <20 | Naphthalene | 720 |
| 1,1,2-Trichloroethane | <25 | 1,2,3-Trichlorobenzene | <50 |
| 2-Hexanone | <500 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-18D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-02 |
| Date Analyzed: | 08/12/24 | Data File: | 081236.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-03 1/200 |
| Date Analyzed: | 08/09/24 | Data File: | 080941.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 94 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <200 | 1,3-Dichloropropane | <200 |
| Chloromethane | <2,000 | Tetrachloroethene | <5 j |
| Vinyl chloride | <4 | Dibromochloromethane | <100 |
| Bromomethane | <1,000 | 1,2-Dibromoethane (EDB) | <2 |
| Chloroethane | <200 | Chlorobenzene | <200 |
| Trichlorofluoromethane | <200 | Ethylbenzene | 1,700 |
| Acetone | <10,000 ca | 1,1,1,2-Tetrachloroethane | <200 |
| 1,1-Dichloroethene | <200 | m,p-Xylene | 5,600 |
| Hexane | <1,000 | o-Xylene | 1,400 |
| Methylene chloride | <1,000 | Styrene | <200 |
| Methyl t-butyl ether (MTBE) | <200 | Isopropylbenzene | <200 |
| trans-1,2-Dichloroethene | <200 | Bromoform | <1,000 |
| 1,1-Dichloroethane | <200 | n-Propylbenzene | <200 |
| 2,2-Dichloropropane | <200 | Bromobenzene | <200 |
| cis-1,2-Dichloroethene | <200 | 1,3,5-Trimethylbenzene | 260 |
| Chloroform | <200 | 1,1,2,2-Tetrachloroethane | <40 |
| 2-Butanone (MEK) | <4,000 | 1,2,3-Trichloropropane | <200 |
| 1,2-Dichloroethane (EDC) | <40 | 2-Chlorotoluene | <200 |
| 1,1,1-Trichloroethane | <200 | 4-Chlorotoluene | <200 |
| 1,1-Dichloropropene | <200 | tert-Butylbenzene | <200 |
| Carbon tetrachloride | <100 | 1,2,4-Trimethylbenzene | 670 |
| Benzene | 8.2 j | sec-Butylbenzene | <200 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <200 |
| 1,2-Dichloropropane | <200 | 1,3-Dichlorobenzene | <200 |
| Bromodichloromethane | <100 | 1,4-Dichlorobenzene | <200 |
| Dibromomethane | <200 | 1,2-Dichlorobenzene | <200 |
| 4-Methyl-2-pentanone | <2,000 | 1,2-Dibromo-3-chloropropane | <2,000 |
| cis-1,3-Dichloropropene | <80 | 1,2,4-Trichlorobenzene | <200 |
| Toluene | 16,000 | Hexachlorobutadiene | <100 |
| trans-1,3-Dichloropropene | <80 | Naphthalene | 620 |
| 1,1,2-Trichloroethane | <100 | 1,2,3-Trichlorobenzene | <200 |
| 2-Hexanone | <2,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-04 |
| Date Analyzed: | 08/09/24 | Data File: | 080936.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 95 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-05 |
| Date Analyzed: | 08/09/24 | Data File: | 080938.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 98 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 44 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 38 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 120 |
| Hexane | <5 | o-Xylene | 54 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 3.6 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 9.4 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 25 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 87 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 34 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 408088-06 |
| Date Analyzed: | 08/09/24 | Data File: | 080937.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 96 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 3.5 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 5.4 |
| Hexane | <5 | o-Xylene | 2.0 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/09/24 | Lab ID: | 04-1824 mb |
| Date Analyzed: | 08/09/24 | Data File: | 080909.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.025 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.035 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.025 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-01 |
| Date Analyzed: | 08/07/24 | Data File: | 080715.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 77 | 11 | 173 |
| 2-Fluorobiphenyl | 68 | 25 | 128 |
| 2,4,6-Tribromophenol | 97 | 10 | 140 |
| Terphenyl-d14 | 78 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| 1-Methylnaphthalene | 51 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.11 |
| Fluorene | 0.13 |
| Phenanthrene | 0.17 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-01 1/20 |
| Date Analyzed: | 08/09/24 | Data File: | 080916.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 82 d | 11 | 173 |
| 2-Fluorobiphenyl | 70 d | 25 | 128 |
| 2,4,6-Tribromophenol | 119 d | 10 | 140 |
| Terphenyl-d14 | 82 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 460 |
| 2-Methylnaphthalene | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-18D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-02 |
| Date Analyzed: | 08/07/24 | Data File: | 080716.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 87 | 11 | 173 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 89 | 10 | 140 |
| Terphenyl-d14 | 84 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | 0.021 |
| Phenanthrene | 0.073 |
| Anthracene | <0.02 |
| Fluoranthene | 0.024 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-03 |
| Date Analyzed: | 08/07/24 | Data File: | 080717.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 110 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 98 | 10 | 140 |
| Terphenyl-d14 | 82 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| 1-Methylnaphthalene | 42 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.15 |
| Fluorene | 0.24 |
| Phenanthrene | 0.23 |
| Anthracene | 0.026 |
| Fluoranthene | 0.037 |
| Pyrene | 0.036 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-03 1/20 |
| Date Analyzed: | 08/09/24 | Data File: | 080917.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 100 d | 11 | 173 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 125 d | 10 | 140 |
| Terphenyl-d14 | 82 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 310 |
| 2-Methylnaphthalene | 78 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-04 |
| Date Analyzed: | 08/07/24 | Data File: | 080718.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 88 | 10 | 140 |
| Terphenyl-d14 | 82 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-05 |
| Date Analyzed: | 08/07/24 | Data File: | 080719.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 11 | 173 |
| 2-Fluorobiphenyl | 67 | 25 | 128 |
| 2,4,6-Tribromophenol | 87 | 10 | 140 |
| Terphenyl-d14 | 75 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 11 |
| 2-Methylnaphthalene | 1.9 |
| 1-Methylnaphthalene | 1.4 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-06 |
| Date Analyzed: | 08/07/24 | Data File: | 080720.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 11 | 173 |
| 2-Fluorobiphenyl | 79 | 25 | 128 |
| 2,4,6-Tribromophenol | 95 | 10 | 140 |
| Terphenyl-d14 | 84 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.46 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 04-1890 mb |
| Date Analyzed: | 08/07/24 | Data File: | 080710.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 15 | 144 |
| 2-Fluorobiphenyl | 61 | 25 | 128 |
| 2,4,6-Tribromophenol | 81 | 10 | 142 |
| Terphenyl-d14 | 87 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-01 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-01.278 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 22 |
| Lead | 3.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-18D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-02 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-02.279 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 6.4 |
| Lead | 4.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-03 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-03.280 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 19 |
| Lead | 7.3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-04 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-04.281 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 13 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-05 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-05.282 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 5.5 |
| Lead | 6.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-06 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-06.283 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.9 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | I4-650 mb |
| Date Analyzed: | 08/08/24 | Data File: | I4-650 mb.200 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-01 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-01.288 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 16 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-01 x500 |
| Date Analyzed: | 08/14/24 | Data File: | 408088-01 x500.125 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 4,200 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-18D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-02 |
| Date Analyzed: | 08/12/24 | Data File: | 408088-02.121 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 2.4 |
| Lead | <1 |
| Manganese | 2.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-03 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-03.292 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 15 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-03 x500 |
| Date Analyzed: | 08/14/24 | Data File: | 408088-03 x500.126 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,800 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-04 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-04.293 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 12 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-05 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-05.294 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.1 |
| Lead | 1.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-05 x10 |
| Date Analyzed: | 08/12/24 | Data File: | 408088-05 x10.124 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Manganese | 43 |
|-----------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/06/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | 408088-06 |
| Date Analyzed: | 08/09/24 | Data File: | 408088-06.295 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.6 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 08/07/24 | Lab ID: | I4-651 mb |
| Date Analyzed: | 08/08/24 | Data File: | I4-651 mb.205 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

Date Extracted: 08/12/24

Date Analyzed: 08/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-12D 408088-01 | 20 |
| MW-18D 408088 -02 | 260 |
| MW-23D 408088 -03 | 75 |
| MW-19D 408088 -04 | 29 |
| MW-21D 408088 -05 | 280 |
| MW-22D 408088 -06 | 77 |
| Method Blank I4-0670 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 408118-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 98 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 88 | 100 | 65-151 | 13 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 408071-06 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 109 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 97 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 110 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 100 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 45 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 101 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 100 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 116 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 103 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 73 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 97 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 96 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 100 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 92 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 87 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 95 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 89 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 97 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 101 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 86 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 92 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 99 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 104 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 92 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 106 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 99 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 103 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 111 | 108 | 46-206 | 3 |
| Chloromethane | ug/L (ppb) | 10 | 95 | 97 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 105 | 108 | 64-142 | 3 |
| Bromomethane | ug/L (ppb) | 10 | 102 | 103 | 50-197 | 1 |
| Chloroethane | ug/L (ppb) | 10 | 103 | 105 | 70-130 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 97 | 97 | 51-159 | 0 |
| Acetone | ug/L (ppb) | 50 | 42 | 46 | 10-140 | 9 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 100 | 102 | 64-140 | 2 |
| Hexane | ug/L (ppb) | 10 | 92 | 100 | 54-136 | 8 |
| Methylene chloride | ug/L (ppb) | 10 | 97 | 100 | 43-134 | 3 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 99 | 102 | 70-130 | 3 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 103 | 103 | 64-148 | 0 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 97 | 102 | 70-130 | 5 |
| Chloroform | ug/L (ppb) | 10 | 93 | 97 | 70-130 | 4 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 70 | 64 | 47-112 | 9 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 95 | 98 | 70-130 | 3 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 96 | 100 | 70-130 | 4 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 93 | 97 | 70-130 | 4 |
| Benzene | ug/L (ppb) | 10 | 95 | 100 | 70-130 | 5 |
| Trichloroethene | ug/L (ppb) | 10 | 88 | 92 | 70-130 | 4 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 85 | 89 | 70-130 | 5 |
| Bromodichloromethane | ug/L (ppb) | 10 | 89 | 91 | 70-130 | 2 |
| Dibromomethane | ug/L (ppb) | 10 | 92 | 99 | 70-130 | 7 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 89 | 93 | 68-130 | 4 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 86 | 90 | 69-131 | 5 |
| Toluene | ug/L (ppb) | 10 | 97 | 103 | 70-130 | 6 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 94 | 97 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 95 | 101 | 70-130 | 6 |
| 2-Hexanone | ug/L (ppb) | 50 | 79 | 86 | 45-138 | 8 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 98 | 70-130 | 5 |
| Tetrachloroethene | ug/L (ppb) | 10 | 98 | 103 | 70-130 | 5 |
| Dibromochloromethane | ug/L (ppb) | 10 | 89 | 94 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 93 | 100 | 70-130 | 7 |
| Chlorobenzene | ug/L (ppb) | 10 | 94 | 101 | 70-130 | 7 |
| Ethylbenzene | ug/L (ppb) | 10 | 101 | 106 | 70-130 | 5 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 102 | 70-130 | 6 |
| m,p-Xylene | ug/L (ppb) | 20 | 98 | 103 | 70-130 | 5 |
| o-Xylene | ug/L (ppb) | 10 | 98 | 103 | 70-130 | 5 |
| Styrene | ug/L (ppb) | 10 | 96 | 99 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| Bromoform | ug/L (ppb) | 10 | 90 | 93 | 69-138 | 3 |
| n-Propylbenzene | ug/L (ppb) | 10 | 97 | 101 | 70-130 | 4 |
| Bromobenzene | ug/L (ppb) | 10 | 88 | 95 | 70-130 | 8 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 95 | 97 | 70-130 | 2 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 101 | 104 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 98 | 101 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 98 | 101 | 70-130 | 3 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 95 | 97 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 91 | 96 | 70-130 | 5 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 95 | 100 | 70-130 | 5 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 95 | 98 | 70-130 | 3 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 97 | 100 | 70-130 | 3 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 96 | 99 | 70-130 | 3 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 95 | 97 | 70-130 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 94 | 100 | 70-130 | 6 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 98 | 102 | 70-130 | 4 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 99 | 101 | 70-130 | 2 |
| Naphthalene | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 98 | 104 | 70-130 | 6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 60 | 70 | 50-104 | 15 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 68 | 80 | 52-113 | 16 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 69 | 80 | 51-115 | 15 |
| Acenaphthylene | ug/L (ppb) | 10 | 81 | 91 | 60-114 | 12 |
| Acenaphthene | ug/L (ppb) | 10 | 76 | 87 | 57-110 | 13 |
| Fluorene | ug/L (ppb) | 10 | 86 | 97 | 61-115 | 12 |
| Phenanthrene | ug/L (ppb) | 10 | 83 | 91 | 63-113 | 9 |
| Anthracene | ug/L (ppb) | 10 | 86 | 95 | 65-117 | 10 |
| Fluoranthene | ug/L (ppb) | 10 | 94 | 99 | 68-121 | 5 |
| Pyrene | ug/L (ppb) | 10 | 86 | 93 | 62-133 | 8 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 92 | 97 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 10 | 90 | 96 | 66-129 | 6 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 95 | 103 | 66-129 | 8 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 91 | 98 | 55-144 | 7 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 95 | 101 | 58-139 | 6 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 112 | 117 | 62-136 | 4 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 108 | 114 | 55-146 | 5 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 107 | 112 | 58-137 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 408069-02 x10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <10 | 97 | 92 | 75-125 | 5 |
| Lead | ug/L (ppb) | 10 | <10 | 105 | 100 | 75-125 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 102 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 408088-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 16.2 | 95 b | 92 b | 75-125 | 3 b |
| Lead | ug/L (ppb) | 10 | <1 | 101 | 101 | 75-125 | 0 |
| Manganese | ug/L (ppb) | 20 | 3,500 | 928 b | 206 b | 75-125 | 127 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 100 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 97 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/24

Date Received: 08/06/24

Project: Whidbey Marine 0204475, F&BI 408088

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 408136-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 96 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

E2/VW31K5

2

PO#

5th 6th 7th

INVOICE TO

☒ Standard turnaround
☐ RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____
 Default: Dispose after 30 days

Default: Dispose after 30 days

ANALYSES REQUESTED

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | MEG BTX-EPA 8021 | Synthetic NWTPH-HOBI | VOCs EPA 8260 | PAHs EPA 8270 | Anions & Alkalinity PCBs EPA 8082 | Total + Dissolved Arsenic / Lead | TSS | dissolved Mn | ammonia | Notes |
|-----------|--------|--------------|----------------------|-------------|-----------|----------|----------|---------------------|------------------------------------|---------------|---------------|--------------------------------------|-------------------------------------|-----|--------------|---------|--------------------------------|
| Mw-12D | 01A-R | 8/5/24 | 1400 ¹⁹⁵⁵ | water | 18 | X | X | X | X | X | X | X | X | X | X | X | anion nitrate chloride sulfate |
| Mw-18P | 02A-R | | 12455 | | 18 | X | X | X | X | X | X | X | X | X | X | X | |
| Mw-23D | 03A-Q | | 1700 | | 17 | X | X | X | X | X | X | X | X | X | X | X | |
| Mw-14D | 04A-M | | 1255 | | 13 | X | X | | | X | X | | X | X | X | X | |
| Mw-21D | 05A-Q | | 1415 | | 17 | X | X | X | X | X | X | X | X | X | X | X | |
| Mw-22D | 06A-L | ✓ | 1655 | ✓ | 12 | X | X | | | X | X | | X | X | X | X | |
| | | | | | | | | | | | | | | | | | |
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Samples received at 2 °C

| | |
|------|------|
| LINE | 0000 |
|------|------|

| | | |
|--|--|-----|
| | | 111 |
|--|--|-----|

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408088 CLIENT H + A INITIALS/DATE: AP 08/06/24

If custody seals are present on cooler, are they intact? ☐ NA ☒ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: AP 08/06/24
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

| | | |
|--------------------|--|--|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| # of Containers | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <u>Not on COC for: MW-19D(04), MW-21D(-05), MW-22D(06)</u> |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | |

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters** _____ Number of unused TO17 tubes _____

**Fill out Green manifolds billing sheet



3600 Fremont Ave N

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 408088, E-332

Work Order Number: 2408076

August 14, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 4 sample(s) on 8/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Sulfide by SM 4500-S2-F

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 408088
Work Order: 2408076

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2408076-001 | MW-12D | 08/05/2024 2:55 PM | 08/06/2024 1:30 PM |
| 2408076-002 | MW-18D | 08/05/2024 2:55 PM | 08/06/2024 1:30 PM |
| 2408076-003 | MW-23D | 08/05/2024 5:00 PM | 08/06/2024 1:30 PM |
| 2408076-004 | MW-21D | 08/05/2024 2:15 PM | 08/06/2024 1:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 408088

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 408088

Lab ID: 2408076-001

Collection Date: 8/5/2024 2:55:00 PM

Client Sample ID: MW-12D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93528 Analyst: LB

| | | | | | | |
|---------|----|---------|--|------|---|---------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/7/2024 2:02:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:02:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:02:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|---|---------------------|
| Chloride | 12.2 | 1.00 | D | mg/L | 5 | 8/8/2024 7:26:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 1:52:00 PM |
| Nitrate (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 1:52:00 PM |
| Sulfate | ND | 2.00 | D* | mg/L | 2 | 8/7/2024 1:52:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 11.3 | 0.700 | | mg/L | 1 | 8/14/2024 12:41:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 47.9 | 2.50 | | mg/L | 1 | 8/12/2024 4:28:00 PM |
|---|------|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 11:15:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Sulfide by SM 4500-S2-F

Batch ID: R93610 Analyst: SS

| | | | | | | |
|---------|------|------|--|------|---|----------------------|
| Sulfide | 3.40 | 1.00 | | mg/L | 1 | 8/13/2024 4:31:33 PM |
|---------|------|------|--|------|---|----------------------|

CLIENT: Friedman & Bruya
Project: 408088

Lab ID: 2408076-002

Client Sample ID: MW-18D

Collection Date: 8/5/2024 2:55:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93528 Analyst: LB

| | | | | | | |
|---------|----|---------|--|------|---|---------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/7/2024 2:04:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:04:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:04:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 25.7 | 2.00 | D | mg/L | 10 | 8/8/2024 7:49:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 2:15:00 PM |
| Nitrate (as N) | 16.9 | 2.00 | DH | mg/L | 10 | 8/8/2024 7:49:00 PM |
| Sulfate | 20.6 | 2.00 | D* | mg/L | 2 | 8/7/2024 2:15:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 1.42 | 0.700 | | mg/L | 1 | 8/14/2024 2:38:00 AM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 26.2 | 2.50 | | mg/L | 1 | 8/12/2024 4:33:00 PM |
|---|------|------|--|------|---|----------------------|

Ammonia by SM 4500 NH₃G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 11:36:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Sulfide by SM 4500-S₂-F

Batch ID: R93610 Analyst: SS

| | | | | | | |
|---------|----|------|--|------|---|----------------------|
| Sulfide | ND | 1.00 | | mg/L | 1 | 8/13/2024 4:31:33 PM |
|---------|----|------|--|------|---|----------------------|

CLIENT: Friedman & Bruya
Project: 408088

Lab ID: 2408076-003

Client Sample ID: MW-23D

Collection Date: 8/5/2024 5:00:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93528 Analyst: LB

| | | | | | | |
|---------|--------|---------|--|------|---|---------------------|
| Methane | 0.0973 | 0.00500 | | mg/L | 1 | 8/7/2024 2:08:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:08:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:08:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 27.7 | 2.00 | D | mg/L | 10 | 8/8/2024 8:12:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 2:38:00 PM |
| Nitrate (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 2:38:00 PM |
| Sulfate | ND | 2.00 | D* | mg/L | 2 | 8/7/2024 2:38:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 10.9 | 0.700 | | mg/L | 1 | 8/14/2024 3:08:00 AM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 38.1 | 2.50 | | mg/L | 1 | 8/12/2024 4:36:00 PM |
|---|------|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 11:41:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Sulfide by SM 4500-S2-F

Batch ID: R93610 Analyst: SS

| | | | | | | |
|---------|------|------|--|------|---|----------------------|
| Sulfide | 2.40 | 1.00 | | mg/L | 1 | 8/13/2024 4:31:33 PM |
|---------|------|------|--|------|---|----------------------|

CLIENT: Friedman & Bruya
Project: 408088

Lab ID: 2408076-004

Client Sample ID: MW-21D

Collection Date: 8/5/2024 2:15:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93528 Analyst: LB

| | | | | | | |
|---------|----|---------|--|------|---|---------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/7/2024 2:10:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:10:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/7/2024 2:10:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 62.7 | 4.00 | D | mg/L | 20 | 8/8/2024 8:36:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 3:01:00 PM |
| Nitrate (as N) | 1.67 | 0.400 | D | mg/L | 2 | 8/7/2024 3:01:00 PM |
| Sulfate | 7.11 | 2.00 | D* | mg/L | 2 | 8/7/2024 3:01:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 1.38 | 0.700 | | mg/L | 1 | 8/14/2024 3:38:00 AM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 120 | 7.50 | D | mg/L | 3 | 8/12/2024 5:16:00 PM |
|---|-----|------|---|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 11:47:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Sulfide by SM 4500-S2-F

Batch ID: R93610 Analyst: SS

| | | | | | | |
|---------|------|------|--|------|---|----------------------|
| Sulfide | 2.20 | 1.00 | | mg/L | 1 | 8/13/2024 4:31:33 PM |
|---------|------|------|--|------|---|----------------------|

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | | |
|----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-93586 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: MBLKW | | Batch ID: R93586 | | | Analysis Date: 8/12/2024 | | | | | SeqNo: 1953770 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-93586 | | SampType: LCS | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: LCSW | | Batch ID: R93586 | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953771 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|
| Alkalinity, Total (As CaCO3) | 26.6 | 2.50 | 25.00 | 0 | 106 | 83.8 | 121 | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: MW-12D | | Batch ID: R93586 | | | Analysis Date: 8/12/2024 | | | | | SeqNo: 1953773 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|
| Alkalinity, Total (As CaCO3) | 47.0 | 2.50 | | | | | | 47.90 | 1.90 | 20 | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: MB-44810 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: MBLKW | | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | | | | SeqNo: 1954284 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-44810 | | SampType: LCS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: LCSW | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954285 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia 0.527 0.150 0.5000 0 105 83.7 113.7

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408076-001DDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: MW-12D | | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954287 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408076-001DMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: MW-12D | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954288 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408076-001DMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: MW-12D | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954289 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 0 30 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408179-002BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: BATCH | | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954302 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408179-002BMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/12/2024 | | RunNo: 93611 | | | |
| Client ID: BATCH | | Batch ID: 44810 | | | | Analysis Date: 8/13/2024 | | SeqNo: 1954303 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.337 | 0.150 | 0.5000 | 0 | 67.4 | 12.2 | 150 | | | | |

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-44773 | | SampType: MBLK | | Units: mg/L | | Prep Date: 8/7/2024 | | | RunNo: 93567 | | |
| Client ID: MBLKW | | Batch ID: 44773 | | | | | Analysis Date: 8/7/2024 | | | SeqNo: 1953363 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| Sample ID: 2408063-002ADUP | SampType: DUP | Units: mg/L | | | Prep Date: 8/7/2024 | | | RunNo: 93567 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | | SeqNo: 1953366 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.04 | 0.200 | | | | | | 1.009 | 3.03 | 20 | |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | HQ |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Sulfate | 1.20 | 1.00 | | | | | | 1.161 | 2.89 | 20 | * |

NOTES:

Q - Associated calibration verification is below acceptance criteria (86.8%, nominal 90-110). Result may be low-biased.

* - Associated LCS is below acceptance criteria. Result may be low-biased.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408063-002AMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953367 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.82 | 0.200 | 0.7500 | 1.009 | 109 | 80 | 120 | | | | |
| Nitrite (as N) | 0.777 | 0.200 | 0.7500 | 0 | 104 | 80 | 120 | | | | H |
| Nitrate (as N) | 0.761 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | | | | H |
| Sulfate | 4.89 | 1.00 | 3.750 | 1.161 | 99.5 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|----------|------|
| Sample ID: 2408063-002AMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | |
| Client ID: BATCH | | Batch ID: 44773 | | | Analysis Date: 8/7/2024 | | | | SeqNo: 1953368 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.82 | 0.200 | 0.7500 | 1.009 | 108 | 80 | 120 | 1.823 | 0.275 | 20 | |

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2408063-002AMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953368 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.773 | 0.200 | 0.7500 | 0 | 103 | 80 | 120 | 0.7770 | 0.516 | 20 | H |
| Nitrate (as N) | 0.760 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | 0.7610 | 0.131 | 20 | H |
| Sulfate | 4.88 | 1.00 | 3.750 | 1.161 | 99.2 | 80 | 120 | 4.894 | 0.266 | 20 | |

| Sample ID: 2408097-002ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953382 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.8 | 0.400 | | | | | | 17.00 | 1.17 | 20 | DE |
| Nitrite (as N) | ND | 0.400 | | | | | | 0 | | 20 | D |
| Nitrate (as N) | ND | 0.400 | | | | | | 0 | | 20 | D |
| Sulfate | 27.8 | 2.00 | | | | | | 28.14 | 1.41 | 20 | D |

| Sample ID: 2408097-002AMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953383 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 17.9 | 0.400 | 1.500 | 17.00 | 57.5 | 80 | 120 | | | | DES |
| Nitrite (as N) | 1.50 | 0.400 | 1.500 | 0 | 99.7 | 80 | 120 | | | | D |
| Nitrate (as N) | 1.66 | 0.400 | 1.500 | 0.2020 | 96.9 | 80 | 120 | | | | D |
| Sulfate | 34.9 | 2.00 | 7.500 | 28.14 | 89.8 | 80 | 120 | | | | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: LCS-RR | | SampType: LCS | | Units: mg/L | | Prep Date: 8/8/2024 | | RunNo: 93567 | | | |
|--------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | | Batch ID: 44773 | | | | Analysis Date: 8/8/2024 | | SeqNo: 1953404 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.688 | 0.200 | 0.7500 | 0 | 91.7 | 90 | 110 | | | | |
| Nitrite (as N) | 0.699 | 0.200 | 0.7500 | 0 | 93.2 | 90 | 110 | | | | |
| Nitrate (as N) | 0.722 | 0.200 | 0.7500 | 0 | 96.3 | 90 | 110 | | | | |

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|--------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-RR | SampType: LCS | Units: mg/L | | | | Prep Date: 8/8/2024 | | | | RunNo: 93567 | | |
| Client ID: LCSW | Batch ID: 44773 | | | | | Analysis Date: 8/8/2024 | | | | SeqNo: 1953404 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfate | 3.30 | 1.00 | 3.750 | 0 | 88.1 | 90 | 110 | | | | S | |

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Sulfide by SM 4500-S2-F

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: MB-R93610 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93610 | | |
| Client ID: MBLKW | | Batch ID: R93610 | | | Analysis Date: 8/13/2024 | | | | SeqNo: 1954319 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|------|--|--|--|--|--|--|--|--|--|
| Sulfide | ND | 1.00 | | | | | | | | | |
|---------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|-----------------------------|---------------------------------|-----------|-------------|---------------------|-----------------------|------|--|
| Sample ID: LCS-R93610 | SampType: LCS | Units: mg/L | | | Prep Date: 8/13/2024 | | | | RunNo: 93610 | | | |
| Client ID: LCSW | Batch ID: R93610 | | | | | Analysis Date: 8/13/2024 | | | | SeqNo: 1954320 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|------|-------|---|------|------|-----|--|--|--|--|
| Sulfide | 1.40 | 1.00 | 2.000 | 0 | 70.0 | 45.6 | 120 | | | | |
|---------|------|------|-------|---|------|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408180-001DDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93610 | | |
| Client ID: BATCH | | Batch ID: R93610 | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954322 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|------|--|--|--|--|--|---|--|----|--|
| Sulfide | ND | 1.00 | | | | | | 0 | | 30 | |
|---------|----|------|--|--|--|--|--|---|--|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2408076-004CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93610 | | |
| Client ID: MW-21D | | Batch ID: R93610 | | | Analysis Date: 8/13/2024 | | | | SeqNo: 1954327 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|------|-------|-------|-----|------|-----|--|--|--|--|
| Sulfide | 4.40 | 1.00 | 2.000 | 2.200 | 110 | 21.5 | 190 | | | | |
|---------|------|------|-------|-------|-----|------|-----|--|--|--|--|

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS | SampType: LCS | Units: mg/L | | | | Prep Date: 8/13/2024 | | | RunNo: 93616 | | |
| Client ID: LCSW | Batch ID: R93616 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954406 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 24.1 | 0.700 | 25.00 | 0 | 96.4 | 87.6 | 109 | | | | |

| | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB | SampType: MBLK | Units: mg/L | | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | |
| Client ID: MBLKW | Batch ID: R93616 | | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954408 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2408076-001DDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | |
| Client ID: MW-12D | Batch ID: R93616 | | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954410 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.3 | 0.700 | | | | | | 11.29 | 0.168 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2408076-001DMS | SampType: MS | Units: mg/L | | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | |
| Client ID: MW-12D | Batch ID: R93616 | | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954411 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 35.6 | 0.700 | 25.00 | 11.29 | 97.3 | 76.5 | 111 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2408076-001DMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | |
| Client ID: MW-12D | Batch ID: R93616 | | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954412 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 34.5 | 0.700 | 25.00 | 11.29 | 92.8 | 76.5 | 111 | 35.61 | 3.18 | 30 | |

Work Order: 2408076
CLIENT: Friedman & Bruya
Project: 408088

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R93528 | | SampType: LCS | | | Units: ppmv | | Prep Date: 8/7/2024 | | | RunNo: 93528 | | |
| Client ID: LCSW | | Batch ID: R93528 | | | Analysis Date: 8/7/2024 | | | | | SeqNo: 1952426 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-----|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 883 | 0.00500 | 1,000 | 0 | 88.3 | 73.6 | 124 | | | | |
| Ethene | 861 | 0.0100 | 1,000 | 0 | 86.1 | 76.3 | 122 | | | | |
| Ethane | 893 | 0.0100 | 1,000 | 0 | 89.3 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R93528 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/7/2024 | | | RunNo: 93528 | | |
| Client ID: MBLKW | | Batch ID: R93528 | | | Analysis Date: 8/7/2024 | | | | | SeqNo: 1952425 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-002AREP | | SampType: REP | | | Units: mg/L | | Prep Date: 8/7/2024 | | | RunNo: 93528 | | |
| Client ID: MW-18D | | Batch ID: R93528 | | | Analysis Date: 8/7/2024 | | | | | SeqNo: 1952420 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB
Logged by: Clare Griggs

Work Order Number: 2408076
Date Received: 8/6/2024 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☒ No ☐ Not Present ☐
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.0 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on August 7, 2024 from the Whidbey Marine, 0204475-001 F&BI 408136 project. There are 49 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0819R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 7, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine, F&BI 408136 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 408136 -01 | MW-6S |
| 408136 -02 | MW-8S |
| 408136 -03 | MW-9D |
| 408136 -04 | MW-17D |
| 408136 -05 | MW-20D |
| 408136 -06 | FD-01 |

Samples MW-8S, MW-9D, MW-17D, and FD-01 were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard exceeded the acceptance criteria for several compounds. The compounds were not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

The 8260D calibration standard did not meet the acceptance criteria for methylene chloride. The data were flagged accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

Date Extracted: 08/09/24

Date Analyzed: 08/09/24 and 08/10/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-6S 408136-01 | 1,900 | 106 |
| MW-8S 408136-02 | 3,000 | 106 |
| MW-9D 408136-03 1/40 | 59,000 | 105 |
| MW-17D 408136-04 1/20 | 24,000 | 100 |
| MW-20D 408136-05 | <100 | 103 |
| FD-01 408136-06 1/40 | 53,000 | 109 |
| Method Blank 04-1745 MB | <100 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

Date Extracted: 08/09/24

Date Analyzed: 08/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-6S 408136-01 1/1.2 | 450 x | <300 | 91 |
| MW-8S 408136-02 1/1.2 | 550 x | <300 | 94 |
| MW-9D 408136-03 | 2,600 x | <250 | 95 |
| MW-17D 408136-04 | 600 x | <250 | 83 |
| MW-20D 408136-05 | <50 | <250 | 99 |
| FD-01 408136-06 | 3,300 x | <250 | 91 |
| Method Blank 04-1895 MB2 | <50 | <250 | 83 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-01 1/10 |
| Date Analyzed: | 08/13/24 | Data File: | 081334.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 71 | 132 |
| Toluene-d8 | 106 | 68 | 139 |
| 4-Bromofluorobenzene | 99 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 k | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <5 j |
| Vinyl chloride | <0.2 k | Dibromochloromethane | <5 |
| Bromomethane | <50 k | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 k | Ethylbenzene | 65 |
| Acetone | <500 | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 87 |
| Hexane | <50 | o-Xylene | <10 |
| Methylene chloride | <50 ca | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 12 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 19 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 40 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 150 |
| Benzene | <3.5 | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 52 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | |
|--------------------------|--------------------------------------|
| Client Sample ID: MW-8S | Client: Haley & Aldrich, Inc |
| Date Received: 08/07/24 | Project: Whidbey Marine, F&BI 408136 |
| Date Extracted: 08/13/24 | Lab ID: 408136-02 |
| Date Analyzed: 08/14/24 | Data File: 081339.D |
| Matrix: Water | Instrument: GCMS13 |
| Units: ug/L (ppb) | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 71 | 132 |
| Toluene-d8 | 105 | 68 | 139 |
| 4-Bromofluorobenzene | 96 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 k | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 k | Dibromochloromethane | <0.5 |
| Bromomethane | <5 k | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 k | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | 34 | o-Xylene | <1 |
| Methylene chloride | 5.6 ca | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 38 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 40 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 100 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | 31 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 210 ve |
| Benzene | <0.35 | sec-Butylbenzene | 5.3 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | 2.5 |
| 1,2-Dichloropropane | 1.0 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 6.6 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-02 1/10 |
| Date Analyzed: | 08/14/24 | Data File: | 081411.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 100 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| 1,2,4-Trimethylbenzene | 240 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-03 1/100 |
| Date Analyzed: | 08/13/24 | Data File: | 081337.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 71 | 132 |
| Toluene-d8 | 104 | 68 | 139 |
| 4-Bromofluorobenzene | 98 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 k | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <5 j |
| Vinyl chloride | <2 k | Dibromochloromethane | <50 |
| Bromomethane | <500 k | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 k | Ethylbenzene | 2,800 |
| Acetone | <5,000 | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 8,700 |
| Hexane | <500 | o-Xylene | 5,100 |
| Methylene chloride | <500 ca | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 200 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 530 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 1,900 |
| Benzene | <3.5 j | sec-Butylbenzene | <100 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,400 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 590 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-04 1/10 |
| Date Analyzed: | 08/13/24 | Data File: | 081335.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 71 | 132 |
| Toluene-d8 | 103 | 68 | 139 |
| 4-Bromofluorobenzene | 98 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 k | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | 100 |
| Vinyl chloride | <0.2 k | Dibromochloromethane | <5 |
| Bromomethane | <50 k | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 k | Ethylbenzene | 1,200 |
| Acetone | <500 | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 2,600 |
| Hexane | <50 | o-Xylene | 1,400 |
| Methylene chloride | <50 ca | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 27 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 42 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | 11 | 1,3,5-Trimethylbenzene | 84 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 320 |
| Benzene | 160 | sec-Butylbenzene | <10 |
| Trichloroethene | 64 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | 2,600 ve | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 89 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-04 1/100 |
| Date Analyzed: | 08/14/24 | Data File: | 081412.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 100 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|------------|-----------------------------|
| Toluene | 2,700 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-05 |
| Date Analyzed: | 08/13/24 | Data File: | 081333.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 71 | 132 |
| Toluene-d8 | 105 | 68 | 139 |
| 4-Bromofluorobenzene | 100 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 k | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 k | Dibromochloromethane | <0.5 |
| Bromomethane | <5 k | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 k | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 2.0 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 ca | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 4.9 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 408136-06 1/100 |
| Date Analyzed: | 08/13/24 | Data File: | 081336.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 71 | 132 |
| Toluene-d8 | 104 | 68 | 139 |
| 4-Bromofluorobenzene | 97 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 k | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <5 j |
| Vinyl chloride | <2 k | Dibromochloromethane | <50 |
| Bromomethane | <500 k | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 k | Ethylbenzene | 2,600 |
| Acetone | <5,000 | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 7,800 |
| Hexane | <500 | o-Xylene | 4,600 |
| Methylene chloride | <500 ca | Styrene | 150 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 190 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 510 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 1,800 |
| Benzene | <3.5 j | sec-Butylbenzene | <100 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,200 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 570 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/13/24 | Lab ID: | 04-1834 mb |
| Date Analyzed: | 08/13/24 | Data File: | 081325.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.05 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.035 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.05 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-01 |
| Date Analyzed: | 08/09/24 | Data File: | 080907.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 11 | 173 |
| 2-Fluorobiphenyl | 85 | 25 | 128 |
| 2,4,6-Tribromophenol | 98 | 10 | 140 |
| Terphenyl-d14 | 101 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 25 |
| 2-Methylnaphthalene | 7.2 |
| 1-Methylnaphthalene | 4.9 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | 0.022 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-02 |
| Date Analyzed: | 08/09/24 | Data File: | 080908.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 102 | 10 | 140 |
| Terphenyl-d14 | 93 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 2.5 |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 18 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.068 |
| Fluorene | 0.068 |
| Phenanthrene | 0.038 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-03 |
| Date Analyzed: | 08/09/24 | Data File: | 080909.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 91 | 11 | 173 |
| 2-Fluorobiphenyl | 65 | 25 | 128 |
| 2,4,6-Tribromophenol | 99 | 10 | 140 |
| Terphenyl-d14 | 88 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 260 ve |
| 2-Methylnaphthalene | 95 ve |
| 1-Methylnaphthalene | 54 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.20 |
| Fluorene | 0.24 |
| Phenanthrene | 0.24 |
| Anthracene | 0.10 |
| Fluoranthene | 0.032 |
| Pyrene | 0.046 |
| Benz(a)anthracene | 0.041 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | 0.029 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.044 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-03 1/20 |
| Date Analyzed: | 08/10/24 | Data File: | 081016.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 d | 11 | 173 |
| 2-Fluorobiphenyl | 66 d | 25 | 128 |
| 2,4,6-Tribromophenol | 120 d | 10 | 140 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 340 |
| 2-Methylnaphthalene | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-04 |
| Date Analyzed: | 08/09/24 | Data File: | 080910.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 77 | 11 | 173 |
| 2-Fluorobiphenyl | 73 | 25 | 128 |
| 2,4,6-Tribromophenol | 94 | 10 | 140 |
| Terphenyl-d14 | 91 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 49 |
| 2-Methylnaphthalene | 18 |
| 1-Methylnaphthalene | 9.1 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.046 |
| Fluorene | 0.041 |
| Phenanthrene | 0.059 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-05 |
| Date Analyzed: | 08/09/24 | Data File: | 080911.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 89 | 11 | 173 |
| 2-Fluorobiphenyl | 81 | 25 | 128 |
| 2,4,6-Tribromophenol | 88 | 10 | 140 |
| Terphenyl-d14 | 97 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.4 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.023 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-06 |
| Date Analyzed: | 08/09/24 | Data File: | 080912.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 91 | 11 | 173 |
| 2-Fluorobiphenyl | 73 | 25 | 128 |
| 2,4,6-Tribromophenol | 93 | 10 | 140 |
| Terphenyl-d14 | 87 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 300 ve |
| 2-Methylnaphthalene | 110 ve |
| 1-Methylnaphthalene | 63 ve |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.23 |
| Fluorene | 0.29 |
| Phenanthrene | 0.29 |
| Anthracene | 0.12 |
| Fluoranthene | 0.037 |
| Pyrene | 0.048 |
| Benz(a)anthracene | 0.040 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | 0.027 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.041 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-06 1/20 |
| Date Analyzed: | 08/10/24 | Data File: | 081017.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 86 d | 11 | 173 |
| 2-Fluorobiphenyl | 70 d | 25 | 128 |
| 2,4,6-Tribromophenol | 116 d | 10 | 140 |
| Terphenyl-d14 | 82 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 420 |
| 2-Methylnaphthalene | 120 |
| 1-Methylnaphthalene | 64 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 04-1890 mb3 |
| Date Analyzed: | 08/09/24 | Data File: | 080906.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 98 | 11 | 173 |
| 2-Fluorobiphenyl | 88 | 25 | 128 |
| 2,4,6-Tribromophenol | 76 | 10 | 140 |
| Terphenyl-d14 | 101 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.4 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-01 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-01.359 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.8 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-02 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-02.360 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 4.2 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-03 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-03.361 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 22 |
| Lead | 3.1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-04 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-04.362 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 30 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-05 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-05.363 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 3.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-06 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-06.364 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 22 |
| Lead | 3.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | I4-650 mb2 |
| Date Analyzed: | 08/09/24 | Data File: | I4-650 mb2.170 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-01 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-01.346 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-02 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-02.347 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 4.2 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-02 x100 |
| Date Analyzed: | 08/13/24 | Data File: | 408136-02 x100.369 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 810 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-03 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-03.348 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 17 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-03 x100 |
| Date Analyzed: | 08/13/24 | Data File: | 408136-03 x100.370 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,400 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-04 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-04.349 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 29 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-04 x500 |
| Date Analyzed: | 08/14/24 | Data File: | 408136-04 x500.127 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 4,000 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-05 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-05.350 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.9 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-06 |
| Date Analyzed: | 08/10/24 | Data File: | 408136-06.351 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 16 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/07/24 | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | 408136-06 x100 |
| Date Analyzed: | 08/13/24 | Data File: | 408136-06 x100.373 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,300 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 408136 |
| Date Extracted: | 08/08/24 | Lab ID: | I4-651 mb2 |
| Date Analyzed: | 08/09/24 | Data File: | I4-651 mb2.169 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

Date Extracted: 08/12/24

Date Analyzed: 08/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-6S 408136-01 | <5 |
| MW-8S 408136-02 | 5.6 |
| MW-9D 408136-03 | 16 |
| MW-17D 408136-04 | 88 |
| MW-20D 408136-05 | 60 |
| FD-01 408136-06 | 16 |
| Method Blank I4-670 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 408153-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 112 | 112 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 408153-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 103 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 109 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 110 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 114 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 113 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 46 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 99 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 95 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 103 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 66 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 98 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 100 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 91 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 94 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 83 | 50-150 |
| Toluene | ug/L (ppb) | 10 | 2.0 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 87 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 94 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 80 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 85 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 93 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 97 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 84 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 91 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 91 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 116 | 113 | 46-206 | 3 |
| Chloromethane | ug/L (ppb) | 10 | 102 | 100 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 113 | 110 | 64-142 | 3 |
| Bromomethane | ug/L (ppb) | 10 | 115 | 111 | 50-197 | 4 |
| Chloroethane | ug/L (ppb) | 10 | 112 | 108 | 70-130 | 4 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 104 | 106 | 51-159 | 2 |
| Acetone | ug/L (ppb) | 50 | 46 | 42 | 10-140 | 9 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 108 | 105 | 64-140 | 3 |
| Hexane | ug/L (ppb) | 10 | 101 | 98 | 54-136 | 3 |
| Methylene chloride | ug/L (ppb) | 10 | 99 | 99 | 43-134 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 104 | 102 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 123 | 110 | 64-148 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 106 | 104 | 70-130 | 2 |
| Chloroform | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 73 | 66 | 47-112 | 10 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| Benzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 92 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Bromodichloromethane | ug/L (ppb) | 10 | 89 | 90 | 70-130 | 1 |
| Dibromomethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 100 | 93 | 68-130 | 7 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 89 | 88 | 69-131 | 1 |
| Toluene | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 97 | 90 | 70-130 | 7 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 2-Hexanone | ug/L (ppb) | 50 | 84 | 82 | 45-138 | 2 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 102 | 95 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 105 | 101 | 70-130 | 4 |
| Dibromochloromethane | ug/L (ppb) | 10 | 96 | 93 | 60-148 | 3 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Ethylbenzene | ug/L (ppb) | 10 | 108 | 105 | 70-130 | 3 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| m,p-Xylene | ug/L (ppb) | 20 | 106 | 103 | 70-130 | 3 |
| o-Xylene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| Styrene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 109 | 103 | 70-130 | 6 |
| Bromoform | ug/L (ppb) | 10 | 97 | 88 | 69-138 | 10 |
| n-Propylbenzene | ug/L (ppb) | 10 | 108 | 105 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 111 | 108 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 106 | 101 | 70-130 | 5 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 108 | 101 | 70-130 | 7 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 108 | 104 | 70-130 | 4 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 106 | 102 | 70-130 | 4 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 105 | 101 | 70-130 | 4 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 101 | 105 | 70-130 | 4 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 108 | 103 | 70-130 | 5 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 108 | 103 | 70-130 | 5 |
| Naphthalene | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 60 | 70 | 50-104 | 15 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 68 | 80 | 52-113 | 16 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 69 | 80 | 51-115 | 15 |
| Acenaphthylene | ug/L (ppb) | 10 | 81 | 91 | 60-114 | 12 |
| Acenaphthene | ug/L (ppb) | 10 | 76 | 87 | 57-110 | 13 |
| Fluorene | ug/L (ppb) | 10 | 86 | 97 | 61-115 | 12 |
| Phenanthrene | ug/L (ppb) | 10 | 83 | 91 | 63-113 | 9 |
| Anthracene | ug/L (ppb) | 10 | 86 | 95 | 65-117 | 10 |
| Fluoranthene | ug/L (ppb) | 10 | 94 | 99 | 68-121 | 5 |
| Pyrene | ug/L (ppb) | 10 | 86 | 93 | 62-133 | 8 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 92 | 97 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 10 | 90 | 96 | 66-129 | 6 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 95 | 103 | 66-129 | 8 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 91 | 98 | 55-144 | 7 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 95 | 101 | 58-139 | 6 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 112 | 117 | 62-136 | 4 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 108 | 114 | 55-146 | 5 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 107 | 112 | 58-137 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 408069-02 x10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <10 | 97 | 92 | 75-125 | 5 |
| Lead | ug/L (ppb) | 10 | <10 | 105 | 100 | 75-125 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 102 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 408088-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 16.2 | 95 b | 92 b | 75-125 | 3 b |
| Lead | ug/L (ppb) | 10 | <1 | 101 | 101 | 75-125 | 0 |
| Manganese | ug/L (ppb) | 20 | 3,500 | 928 b | 0 b | 75-125 | 127 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 100 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 97 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/07/24

Project: Whidbey Marine, F&BI 408136

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 408136-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 92 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

E2/K4/VW4

-

Default: Dispose after 30 days

On

refers to email for analysis

TIME

1505

7

200

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408136 CLIENT H + A INITIALS/ AP
DATE: 08/07/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 08/07/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☐ YES ☒ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☐ YES ☒ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

| | | |
|--------------------|--|---|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| # of Containers | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <u>(See below)</u> |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <u>Not on COC. Added at lab.</u> |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | |

Other comments (use a separate page if needed)

Time on label 12:40 (-03A-S)
14:50 15:05 (-04A-R)
12:40 (-06A-Q)
There is headspace on 1 VOA RWLQ (03M)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



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info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 408136, E-334

Work Order Number: 2408117

August 14, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 4 sample(s) on 8/7/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 08/14/2024

CLIENT: Friedman & Bruya
Project: 408136
Work Order: 2408117

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2408117-001 | MW-8S | 08/06/2024 12:00 AM | 08/07/2024 3:45 PM |
| 2408117-002 | MW-9D | 08/06/2024 12:00 AM | 08/07/2024 3:45 PM |
| 2408117-003 | MW-17D | 08/06/2024 12:00 AM | 08/07/2024 3:45 PM |
| 2408117-004 | FD-01 | 08/06/2024 12:00 AM | 08/07/2024 3:45 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 408136

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 408136

Lab ID: 2408117-001

Collection Date: 8/6/2024

Client Sample ID: MW-8S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/9/2024 11:13:00 AM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:13:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:13:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 34.2 | 2.00 | D | mg/L | 10 | 8/8/2024 8:59:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 9:12:00 PM |
| Nitrate (as N) | 2.39 | 0.400 | D | mg/L | 2 | 8/7/2024 9:12:00 PM |
| Sulfate | 23.7 | 2.00 | D* | mg/L | 2 | 8/7/2024 9:12:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|----------------------|
| Alkalinity, Total (As CaCO ₃) | 189 | 25.0 | D | mg/L | 10 | 8/12/2024 5:21:00 PM |
|---|-----|------|---|------|----|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 11:52:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0731 | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|--------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 408136

Lab ID: 2408117-002

Collection Date: 8/6/2024

Client Sample ID: MW-9D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/9/2024 11:36:00 AM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:36:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:36:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 29.8 | 2.00 | D | mg/L | 10 | 8/8/2024 9:22:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 9:35:00 PM |
| Nitrate (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 9:35:00 PM |
| Sulfate | 8.57 | 2.00 | D* | mg/L | 2 | 8/7/2024 9:35:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 43.9 | 2.50 | | mg/L | 1 | 8/12/2024 4:45:00 PM |
|---|------|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 12:07:00 PM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|-------|--------|--|------|---|-----------------------|
| Sulfide | 0.253 | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|-------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 408136

Lab ID: 2408117-003

Collection Date: 8/6/2024

Client Sample ID: MW-17D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|-------|--------|---|------|---|----------------------|
| Methane | 0.742 | 0.0250 | D | mg/L | 5 | 8/9/2024 12:22:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:40:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:40:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|---------------------|
| Chloride | 27.6 | 2.00 | D | mg/L | 10 | 8/8/2024 9:45:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 9:58:00 PM |
| Nitrate (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 9:58:00 PM |
| Sulfate | ND | 2.00 | D* | mg/L | 2 | 8/7/2024 9:58:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|----------------------|
| Alkalinity, Total (As CaCO ₃) | 221 | 25.0 | D | mg/L | 10 | 8/12/2024 5:24:00 PM |
|---|-----|------|---|------|----|----------------------|

Ammonia by SM 4500 NH₃G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 12:12:00 PM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S₂-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|-------|--------|--|------|---|-----------------------|
| Sulfide | 0.108 | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|-------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 408136

Lab ID: 2408117-004
Client Sample ID: FD-01

Collection Date: 8/6/2024
Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/9/2024 11:43:00 AM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:43:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:43:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44773 Analyst: SS

| | | | | | | |
|----------------|------|-------|----|------|----|----------------------|
| Chloride | 29.2 | 2.00 | D | mg/L | 10 | 8/8/2024 10:08:00 PM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 10:21:00 PM |
| Nitrate (as N) | ND | 0.400 | D | mg/L | 2 | 8/7/2024 10:21:00 PM |
| Sulfate | 8.50 | 2.00 | D* | mg/L | 2 | 8/7/2024 10:21:00 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Alkalinity by EPA 310.2

Batch ID: R93586 Analyst: NR

| | | | | | | |
|---|------|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 46.2 | 2.50 | | mg/L | 1 | 8/12/2024 5:03:00 PM |
|---|------|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 12:35:00 PM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|-------|--------|--|------|---|-----------------------|
| Sulfide | 0.313 | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|-------|--------|--|------|---|-----------------------|

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-93586 | SampType: MBLK | Units: mg/L | | | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: MBLKW | Batch ID: R93586 | | | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953770 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-93586 | SampType: LCS | Units: mg/L | | | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: LCSW | Batch ID: R93586 | | | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953771 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 26.6 | 2.50 | 25.00 | 0 | 106 | 83.8 | 121 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2408076-001BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/12/2024 | | | RunNo: 93586 | | |
| Client ID: BATCH | Batch ID: R93586 | | | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953773 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 47.0 | 2.50 | | | | | | 47.90 | 1.90 | 20 | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-44810 | | SampType: MBLK | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: MBLKW | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954284 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-44810 | | SampType: LCS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: LCSW | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954285 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia 0.527 0.150 0.5000 0 105 83.7 113.7

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408076-001DDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: BATCH | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954287 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408076-001DMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: BATCH | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954288 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408076-001DMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: BATCH | | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954289 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 0 30 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408179-002BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93611 | | |
| Client ID: BATCH | Batch ID: 44810 | | | | | Analysis Date: 8/13/2024 | | | | SeqNo: 1954302 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2408179-002BMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93611 | | |
| Client ID: BATCH | | Batch ID: 44810 | | Analysis Date: 8/13/2024 | | | SeqNo: 1954303 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.337 | 0.150 | 0.5000 | 0 | 67.4 | 12.2 | 150 | | | | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-44773 | | SampType: MBLK | | Units: mg/L | | Prep Date: 8/7/2024 | | | RunNo: 93567 | | |
| Client ID: MBLKW | | Batch ID: 44773 | | | | | Analysis Date: 8/7/2024 | | | SeqNo: 1953363 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408063-002ADUP | SampType: DUP | Units: mg/L | | | Prep Date: 8/7/2024 | | | RunNo: 93567 | | | |
| Client ID: BATCH | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | | SeqNo: 1953366 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.04 | 0.200 | | | | | | 1.009 | 3.03 | 20 | |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | HQ |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Sulfate | 1.20 | 1.00 | | | | | | 1.161 | 2.89 | 20 | * |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

* - Associated LCS is below acceptance criteria. Result may be low-biased.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408063-002AMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953367 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.82 | 0.200 | 0.7500 | 1.009 | 109 | 80 | 120 | | | | |
| Nitrite (as N) | 0.777 | 0.200 | 0.7500 | 0 | 104 | 80 | 120 | | | | H |
| Nitrate (as N) | 0.761 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | | | | H |
| Sulfate | 4.89 | 1.00 | 3.750 | 1.161 | 99.5 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2408063-002AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 8/7/2024 | | | RunNo: 93567 | | |
| Client ID: BATCH | Batch ID: 44773 | | | | | Analysis Date: 8/7/2024 | | | SeqNo: 1953368 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 1.82 | 0.200 | 0.7500 | 1.009 | 108 | 80 | 120 | 1.823 | 0.275 | 20 | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2408063-002AMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953368 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.773 | 0.200 | 0.7500 | 0 | 103 | 80 | 120 | 0.7770 | 0.516 | 20 | H |
| Nitrate (as N) | 0.760 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | 0.7610 | 0.131 | 20 | H |
| Sulfate | 4.88 | 1.00 | 3.750 | 1.161 | 99.2 | 80 | 120 | 4.894 | 0.266 | 20 | |

| Sample ID: 2408097-002ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953382 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 16.8 | 0.400 | | | | | | 17.00 | 1.17 | 20 | DE |
| Nitrite (as N) | ND | 0.400 | | | | | | 0 | | 20 | D |
| Nitrate (as N) | ND | 0.400 | | | | | | 0 | | 20 | D |
| Sulfate | 27.8 | 2.00 | | | | | | 28.14 | 1.41 | 20 | D |

| Sample ID: 2408097-002AMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/7/2024 | | RunNo: 93567 | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 44773 | | | | Analysis Date: 8/7/2024 | | SeqNo: 1953383 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 17.9 | 0.400 | 1.500 | 17.00 | 57.5 | 80 | 120 | | | | DES |
| Nitrite (as N) | 1.50 | 0.400 | 1.500 | 0 | 99.7 | 80 | 120 | | | | D |
| Nitrate (as N) | 1.66 | 0.400 | 1.500 | 0.2020 | 96.9 | 80 | 120 | | | | D |
| Sulfate | 34.9 | 2.00 | 7.500 | 28.14 | 89.8 | 80 | 120 | | | | D |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: LCS-RR | | SampType: LCS | | Units: mg/L | | Prep Date: 8/8/2024 | | RunNo: 93567 | | | |
|--------------------------|--------|------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | | Batch ID: 44773 | | | | Analysis Date: 8/8/2024 | | SeqNo: 1953404 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.688 | 0.200 | 0.7500 | 0 | 91.7 | 90 | 110 | | | | |
| Nitrite (as N) | 0.699 | 0.200 | 0.7500 | 0 | 93.2 | 90 | 110 | | | | |
| Nitrate (as N) | 0.722 | 0.200 | 0.7500 | 0 | 96.3 | 90 | 110 | | | | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|--------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-RR | SampType: LCS | Units: mg/L | | | | Prep Date: 8/8/2024 | | | RunNo: 93567 | | |
| Client ID: LCSW | Batch ID: 44773 | | | | | Analysis Date: 8/8/2024 | | | SeqNo: 1953404 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 3.30 | 1.00 | 3.750 | 0 | 88.1 | 90 | 110 | | | | S |

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R93564 | SampType: MBLK | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: MBLKW | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953246 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R93564 | SampType: LCS | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: LCSW | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953247 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.207 | 0.0500 | 0.2000 | 0 | 104 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-001CDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953251 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.278 | 0.0500 | | | | | | 0.2619 | 5.98 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-001CMS | SampType: MS | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953252 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.433 | 0.0500 | 0.2000 | 0.2619 | 85.7 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|--|
| Sample ID: 2408076-001CMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953253 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.430 | 0.0500 | 0.2000 | 0.2619 | 83.8 | 80 | 120 | 0.4333 | 0.864 | 20 | | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT
Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408139-002BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93564 | | |
| Client ID: BATCH | | Batch ID: R93564 | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953264 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408139-002BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93564 | | |
| Client ID: BATCH | | Batch ID: R93564 | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953265 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.174 | 0.0500 | 0.2000 | 0 | 86.9 | 80 | 120 | | | | | |

Work Order: 2408117
CLIENT: Friedman & Bruya
Project: 408136

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R93551 | | SampType: LCS | | | Units: ppmv | | Prep Date: 8/9/2024 | | | RunNo: 93551 | | |
| Client ID: LCSW | | Batch ID: R93551 | | | Analysis Date: 8/9/2024 | | | SeqNo: 1952884 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-----|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 930 | 0.00500 | 1,000 | 0 | 93.0 | 73.6 | 124 | | | | |
| Ethene | 922 | 0.0100 | 1,000 | 0 | 92.2 | 76.3 | 122 | | | | |
| Ethane | 945 | 0.0100 | 1,000 | 0 | 94.5 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R93551 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/9/2024 | | | RunNo: 93551 | | |
| Client ID: MBLKW | | Batch ID: R93551 | | | Analysis Date: 8/9/2024 | | | | | SeqNo: 1952880 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2408117-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 8/9/2024 | | | RunNo: 93551 | | |
| Client ID: MW-8S | | Batch ID: R93551 | | | Analysis Date: 8/9/2024 | | | SeqNo: 1952870 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2408117

Logged by: Morgan Wilson

Date Received: 8/7/2024 3:45:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 5.7 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on August 8, 2024 from the Whidbey Marine, 0204475-001 F&BI 408153 project. There are 29 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0819R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 8, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine, F&BI 408153 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 408153 -01 | MW-2S |
| 408153 -02 | MW-3S |
| 408153 -03 | Trip Blank |

Samples MW-2S and MW-3S were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 6020B method blank arsenic calibration standard exceeded the acceptance criteria. The metal was not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

The sample MW-2S was filtered at the laboratory for dissolved metals. The data were qualified accordingly.

The 6020B dissolved iron calibration verification was outside of control limits. In addition, the laboratory control sample exceeded control limits associated with MW-3S. The data were qualified accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

Date Extracted: 08/09/24

Date Analyzed: 08/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-2S 408153-01 | <100 | 96 |
| MW-3S 408153-02 | <100 | 104 |
| Method Blank 04-1745 MB | <100 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

Date Extracted: 08/09/24

Date Analyzed: 08/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-2S 408153-01 1/1.6 | 120 | <400 | 87 |
| MW-3S 408153-02 | <50 | <250 | 91 |
| Method Blank 04-1895 MB2 | <50 | <250 | 83 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 | Lab ID: | 408153-01 |
| Date Analyzed: | 08/13/24 | Data File: | 081344.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 | Lab ID: | 408153-02 |
| Date Analyzed: | 08/13/24 | Data File: | 081345.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 97 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 2.0 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 | Lab ID: | 04-1834 mb |
| Date Analyzed: | 08/13/24 | Data File: | 081325.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/08/24 | Lab ID: | 408153-01 |
| Date Analyzed: | 08/09/24 | Data File: | 080914.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 87 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 94 | 10 | 140 |
| Terphenyl-d14 | 91 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/08/24 | Lab ID: | 408153-02 |
| Date Analyzed: | 08/09/24 | Data File: | 080915.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 99 | 11 | 173 |
| 2-Fluorobiphenyl | 96 | 25 | 128 |
| 2,4,6-Tribromophenol | 97 | 10 | 140 |
| Terphenyl-d14 | 95 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.023 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/08/24 | Lab ID: | 04-1890 mb3 |
| Date Analyzed: | 08/09/24 | Data File: | 080906.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 98 | 11 | 173 |
| 2-Fluorobiphenyl | 88 | 25 | 128 |
| 2,4,6-Tribromophenol | 76 | 10 | 140 |
| Terphenyl-d14 | 101 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/09/24 | Lab ID: | 408153-01 |
| Date Analyzed: | 08/10/24 | Data File: | 408153-01.333 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.3 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/09/24 | Lab ID: | 408153-02 |
| Date Analyzed: | 08/10/24 | Data File: | 408153-02.334 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/09/24 | Lab ID: | I4-660 mb |
| Date Analyzed: | 08/09/24 | Data File: | I4-660 mb.171 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | <1 k |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------------|-------------|-----------------------------|
| Client ID: | MW-2S f | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/15/24 10:40 | Lab ID: | 408153-01 |
| Date Analyzed: | 08/15/24 16:06:46 | Data File: | 408153-01.119 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.6 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------------|-------------|-----------------------------|
| Client ID: | MW-2S f | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/15/24 10:40 | Lab ID: | 408153-01 rr |
| Date Analyzed: | 08/19/24 11:55:49 | Data File: | 408153-01 rr.059 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|--------|
| Iron | 160 ca |
| Manganese | 4.1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 | Lab ID: | 408153-02 |
| Date Analyzed: | 08/13/24 | Data File: | 408153-02.174 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------------|-------------|-----------------------------|
| Client ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 08/08/24 | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 13:15 | Lab ID: | 408153-02 rr |
| Date Analyzed: | 08/19/24 11:59:21 | Data File: | 408153-02 rr.060 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----------|
| Iron | 94 jl ca |
| Manganese | 2.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------------|-------------|-----------------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/15/24 10:40 | Lab ID: | I4-677 mb |
| Date Analyzed: | 08/15/24 15:59:44 | Data File: | I4-677 mb.117 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Arsenic | <1 |
| Iron | <50 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 408153 |
| Date Extracted: | 08/13/24 | Lab ID: | I4-672 mb |
| Date Analyzed: | 08/13/24 | Data File: | I4-672 mb.149 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Arsenic | <1 |
| Iron | <50 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

Date Extracted: 08/12/24

Date Analyzed: 08/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-2S 408153-01 | <5 |
| MW-3S 408153 -02 | 6.8 |
| Method Blank I4-0670 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 408153-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 112 | 112 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 408153-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 103 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 109 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 110 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 114 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 113 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 46 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 99 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 95 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 103 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 66 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 98 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 100 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 91 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 94 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 83 | 50-150 |
| Toluene | ug/L (ppb) | 10 | 2.0 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 87 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 94 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 80 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 85 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 93 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 97 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 84 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 91 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 91 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 116 | 113 | 46-206 | 3 |
| Chloromethane | ug/L (ppb) | 10 | 102 | 100 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 113 | 110 | 64-142 | 3 |
| Bromomethane | ug/L (ppb) | 10 | 115 | 111 | 50-197 | 4 |
| Chloroethane | ug/L (ppb) | 10 | 112 | 108 | 70-130 | 4 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 104 | 106 | 51-159 | 2 |
| Acetone | ug/L (ppb) | 50 | 46 | 42 | 10-140 | 9 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 108 | 105 | 64-140 | 3 |
| Hexane | ug/L (ppb) | 10 | 101 | 98 | 54-136 | 3 |
| Methylene chloride | ug/L (ppb) | 10 | 99 | 99 | 43-134 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 104 | 102 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 123 | 110 | 64-148 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 106 | 104 | 70-130 | 2 |
| Chloroform | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 73 | 66 | 47-112 | 10 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| Benzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 92 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Bromodichloromethane | ug/L (ppb) | 10 | 89 | 90 | 70-130 | 1 |
| Dibromomethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 100 | 93 | 68-130 | 7 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 89 | 88 | 69-131 | 1 |
| Toluene | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 97 | 90 | 70-130 | 7 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 2-Hexanone | ug/L (ppb) | 50 | 84 | 82 | 45-138 | 2 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 102 | 95 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 105 | 101 | 70-130 | 4 |
| Dibromochloromethane | ug/L (ppb) | 10 | 96 | 93 | 60-148 | 3 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Ethylbenzene | ug/L (ppb) | 10 | 108 | 105 | 70-130 | 3 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| m,p-Xylene | ug/L (ppb) | 20 | 106 | 103 | 70-130 | 3 |
| o-Xylene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| Styrene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 109 | 103 | 70-130 | 6 |
| Bromoform | ug/L (ppb) | 10 | 97 | 88 | 69-138 | 10 |
| n-Propylbenzene | ug/L (ppb) | 10 | 108 | 105 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 111 | 108 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 107 | 103 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 106 | 101 | 70-130 | 5 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 108 | 101 | 70-130 | 7 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 108 | 104 | 70-130 | 4 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 106 | 102 | 70-130 | 4 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 105 | 101 | 70-130 | 4 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 101 | 105 | 70-130 | 4 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 108 | 103 | 70-130 | 5 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 108 | 103 | 70-130 | 5 |
| Naphthalene | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 107 | 105 | 70-130 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 60 | 70 | 50-104 | 15 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 68 | 80 | 52-113 | 16 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 69 | 80 | 51-115 | 15 |
| Acenaphthylene | ug/L (ppb) | 10 | 81 | 91 | 60-114 | 12 |
| Acenaphthene | ug/L (ppb) | 10 | 76 | 87 | 57-110 | 13 |
| Fluorene | ug/L (ppb) | 10 | 86 | 97 | 61-115 | 12 |
| Phenanthrene | ug/L (ppb) | 10 | 83 | 91 | 63-113 | 9 |
| Anthracene | ug/L (ppb) | 10 | 86 | 95 | 65-117 | 10 |
| Fluoranthene | ug/L (ppb) | 10 | 94 | 99 | 68-121 | 5 |
| Pyrene | ug/L (ppb) | 10 | 86 | 93 | 62-133 | 8 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 92 | 97 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 10 | 90 | 96 | 66-129 | 6 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 95 | 103 | 66-129 | 8 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 91 | 98 | 55-144 | 7 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 95 | 101 | 58-139 | 6 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 112 | 117 | 62-136 | 4 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 108 | 114 | 55-146 | 5 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 107 | 112 | 58-137 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 408161-44 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 101 | 98 | 75-125 | 3 |
| Lead | ug/L (ppb) | 10 | <1 | 97 | 95 | 75-125 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 102 | 80-120 |
| Lead | ug/L (ppb) | 10 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 408153-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 2.56 | 99 b | 102 b | 75-125 | 3 b |
| Iron | ug/L (ppb) | 100 | 125 | 84 b | 95 b | 75-125 | 12 b |
| Lead | ug/L (ppb) | 10 | <1 | 101 | 104 | 75-125 | 3 |
| Manganese | ug/L (ppb) | 20 | 4.02 | 100 b | 104 b | 75-125 | 4 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 95 | 80-120 |
| Iron | ug/L (ppb) | 100 | 94 | 80-120 |
| Lead | ug/L (ppb) | 10 | 96 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 99 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 408153-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 2.06 | 95 b | 92 b | 75-125 | 3 b |
| Iron | ug/L (ppb) | 100 | 87.5 | 104 b | 81 b | 75-125 | 25 b |
| Lead | ug/L (ppb) | 10 | <1 | 102 | 98 | 75-125 | 4 |
| Manganese | ug/L (ppb) | 20 | 2.93 | 103 | 97 | 75-125 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 99 | 80-120 |
| Iron | ug/L (ppb) | 100 | 121 vo | 80-120 |
| Lead | ug/L (ppb) | 10 | 97 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 101 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/19/24

Date Received: 08/08/24

Project: Whidbey Marine, F&BI 408153

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 408136-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 96 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

$$F_2/K||VW_2$$

TURNAROUND TIME

Address _____

Phone _____ Email Hgood@haleyarrich

| |
|---|
| TURNAROUND TIME |
| <input checked="" type="checkbox"/> Standard turnaround |
| <input type="checkbox"/> RUSH _____ |
| Rush charges authorized by: _____ |
| SAMPLE DISPOSAL |
| <input type="checkbox"/> Archive samples |
| <input type="checkbox"/> Other _____ |
| Default: Dispose after 30 days |

[illegible]

Friedman & Bruya, Inc.
5500 4th Ave S.
Seattle WA 98108
(206) 285-8282
office@friedmanandbruya.com

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|---------------|---------|--------|-------|
| Relinquished by: <i>[Signature]</i> | Zach Stephens | H&A | 8/8/24 | 10:45 |
| Received by: <i>[Signature]</i> | Eric Yodanis | FB | 8/8/24 | 10:45 |
| Relinquished by: | | | | |
| Received by: | | | | |
| Samples received at 4:00 | | | | |

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408153 CLIENT HQA INITIALS/ DATE: AP 8/8/21

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ Date: AP 08/08/24
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

| | | |
|--------------------|--|---|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| # of Containers | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <u>Added Trip Blank at lab.</u> |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | |

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



3600 Fremont Ave N
Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 408153, E-355

Work Order Number: 2408139

August 16, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 8/8/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



www.fremontanalytical.com



Date: 08/16/2024

CLIENT: Friedman & Bruya
Project: 408153
Work Order: 2408139

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2408139-001 | MW-2S | 08/07/2024 10:30 AM | 08/08/2024 3:32 PM |
| 2408139-002 | MW-3S | 08/07/2024 1:15 PM | 08/08/2024 3:32 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 408153

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 408153

Lab ID: 2408139-001

Collection Date: 8/7/2024 10:30:00 AM

Client Sample ID: MW-2S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/9/2024 11:45:00 AM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:45:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:45:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44836 Analyst: OP

| | | | | | | |
|----------------|------|------|-----|------|----|----------------------|
| Chloride | 26.6 | 1.00 | D | mg/L | 5 | 8/15/2024 3:07:00 AM |
| Nitrite (as N) | ND | 2.00 | DQ* | mg/L | 10 | 8/9/2024 10:53:00 AM |
| Nitrite (as N) | ND | 1.00 | DH | mg/L | 5 | 8/15/2024 3:07:00 AM |
| Nitrate (as N) | 3.70 | 2.00 | D | mg/L | 10 | 8/9/2024 10:53:00 AM |
| Sulfate | 21.1 | 5.00 | D | mg/L | 5 | 8/15/2024 3:07:00 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria (88.3%, nominal 90-110). Result may be low-biased.

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 2.24 | 0.700 | | mg/L | 1 | 8/14/2024 3:58:00 AM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93661 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|---|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 150 | 12.5 | D | mg/L | 5 | 8/15/2024 12:14:00 PM |
|---|-----|------|---|------|---|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 12:39:00 PM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 408153

Lab ID: 2408139-002

Collection Date: 8/7/2024 1:15:00 PM

Client Sample ID: MW-3S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R93551 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 8/9/2024 11:47:00 AM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:47:00 AM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 8/9/2024 11:47:00 AM |

Ion Chromatography by EPA 300.0

Batch ID: 44836 Analyst: OP

| | | | | | | |
|----------------|------|------|-----|------|----|----------------------|
| Chloride | 20.6 | 1.00 | D | mg/L | 5 | 8/15/2024 3:31:00 AM |
| Nitrite (as N) | ND | 2.00 | DQ* | mg/L | 10 | 8/9/2024 11:16:00 AM |
| Nitrite (as N) | ND | 1.00 | DH | mg/L | 5 | 8/15/2024 3:31:00 AM |
| Nitrate (as N) | 7.56 | 2.00 | D | mg/L | 10 | 8/9/2024 11:16:00 AM |
| Sulfate | 17.9 | 5.00 | D | mg/L | 5 | 8/15/2024 3:31:00 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria (88.3%, nominal 90-110). Result may be low-biased.

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Total Organic Carbon by SM 5310C

Batch ID: R93616 Analyst: SS

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 1.45 | 0.700 | | mg/L | 1 | 8/14/2024 4:20:00 AM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R93661 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|---|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 134 | 12.5 | D | mg/L | 5 | 8/15/2024 12:17:00 PM |
|---|-----|------|---|------|---|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 44810 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 8/13/2024 12:44:00 PM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R93564 Analyst: SLL

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 8/12/2024 10:46:05 AM |
|---------|----|--------|--|------|---|-----------------------|

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-93661 | SampType: MBLK | Units: mg/L | | | | Prep Date: 8/15/2024 | | | | RunNo: 93661 | | |
| Client ID: MBLKW | Batch ID: R93661 | | | | | Analysis Date: 8/15/2024 | | | | SeqNo: 1955483 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-93661 | SampType: LCS | Units: mg/L | | | | Prep Date: 8/15/2024 | | | | RunNo: 93661 | | |
| Client ID: LCSW | Batch ID: R93661 | | | | | Analysis Date: 8/15/2024 | | | | SeqNo: 1955484 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 28.2 | 2.50 | 25.00 | 0 | 113 | 83.8 | 121 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408124-009BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/15/2024 | | | | RunNo: 93661 | | |
| Client ID: BATCH | Batch ID: R93661 | | | | | Analysis Date: 8/15/2024 | | | | SeqNo: 1955486 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 12.5 | 2.50 | | | | | | 11.60 | 7.47 | 20 | | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-44810 | SampType: MBLK | Units: mg/L | | Prep Date: 8/12/2024 | RunNo: 93611 | | | | | | | |
| Client ID: MBLKW | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | SeqNo: 1954284 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-44810 | SampType: LCS | Units: mg/L | | Prep Date: 8/12/2024 | RunNo: 93611 | | | | | | | |
| Client ID: LCSW | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | SeqNo: 1954285 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.527 | 0.150 | 0.5000 | 0 | 105 | 83.7 | 113.7 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2408076-001DDUP | SampType: DUP | Units: mg/L | | Prep Date: 8/12/2024 | RunNo: 93611 | | | | | | | |
| Client ID: BATCH | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | SeqNo: 1954287 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2408179-002BDUP | SampType: DUP | Units: mg/L | | Prep Date: 8/12/2024 | RunNo: 93611 | | | | | | | |
| Client ID: BATCH | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | SeqNo: 1954302 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2408179-002BMS | SampType: MS | Units: mg/L | | Prep Date: 8/12/2024 | RunNo: 93611 | | | | | | | |
| Client ID: BATCH | Batch ID: 44810 | | | Analysis Date: 8/13/2024 | SeqNo: 1954303 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.337 | 0.150 | 0.5000 | 0 | 67.4 | 12.2 | 150 | | | | | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-44790 | | SampType: MBLK | | Units: mg/L | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | |
| Client ID: MBLKW | | Batch ID: 44790 | | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956269 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-44790 | | SampType: LCS | | Units: mg/L | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | |
| Client ID: LCSW | | Batch ID: 44790 | | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956270 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.668 | 0.200 | 0.7500 | 0 | 89.1 | 90 | 110 | | | | S |
| Nitrate (as N) | 0.714 | 0.200 | 0.7500 | 0 | 95.2 | 90 | 110 | | | | |

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408124-009BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | |
| Client ID: BATCH | | Batch ID: 44790 | | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956272 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | H* |
| Nitrate (as N) | 2.05 | 0.200 | | | | | | 2.038 | 0.733 | 20 | H |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408124-009BMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | |
| Client ID: BATCH | | Batch ID: 44790 | | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956273 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.743 | 0.200 | 0.7500 | 0 | 99.1 | 80 | 120 | | | | H |
| Nitrate (as N) | 2.83 | 0.200 | 0.7500 | 2.038 | 106 | 80 | 120 | | | | H |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2408124-009BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 44790 | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956282 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.756 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | 0.7430 | 1.73 | 20 | H |
| Nitrate (as N) | 2.83 | 0.200 | 0.7500 | 2.038 | 106 | 80 | 120 | 2.832 | 0 | 20 | H |

| Sample ID: 2408139-002CDUP | SampType: DUP | Units: mg/L | | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-3S | Batch ID: 44790 | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956278 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | ND | 2.00 | | | | | | 0 | | 20 | DQ* |
| Nitrate (as N) | 7.36 | 2.00 | | | | | | 7.560 | 2.68 | 20 | D |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

* - Associated LCS is below acceptance criteria. Result may be low-biased.

| Sample ID: 2408139-002CMS | SampType: MS | Units: mg/L | | | Prep Date: 8/8/2024 | | | RunNo: 93684 | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-3S | Batch ID: 44790 | | | | Analysis Date: 8/9/2024 | | | SeqNo: 1956279 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 7.25 | 2.00 | 7.500 | 0 | 96.7 | 80 | 120 | | | | D |
| Nitrate (as N) | 15.6 | 2.00 | 7.500 | 7.560 | 107 | 80 | 120 | | | | D |

| Sample ID: LCS-44836 | SampType: LCS | Units: mg/L | | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | Batch ID: 44836 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1955943 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.728 | 0.200 | 0.7500 | 0 | 97.1 | 90 | 110 | | | | |
| Nitrite (as N) | 0.713 | 0.200 | 0.7500 | 0 | 95.1 | 90 | 110 | | | | |
| Sulfate | 3.58 | 1.00 | 3.750 | 0 | 95.5 | 90 | 110 | | | | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-44836 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | |
| Client ID: MBLKW | | Batch ID: 44836 | | | Analysis Date: 8/14/2024 | | | | | SeqNo: 1955945 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2408189-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | |
| Client ID: BATCH | | Batch ID: 44836 | | | Analysis Date: 8/14/2024 | | | | | SeqNo: 1955947 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|------|-------|--|--|--|--|--|-------|------|----|--|
| Chloride | 2.11 | 0.200 | | | | | | 2.078 | 1.62 | 20 | |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | 2.28 | 1.00 | | | | | | 2.217 | 2.80 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2408189-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | |
| Client ID: BATCH | | Batch ID: 44836 | | | Analysis Date: 8/14/2024 | | | | | SeqNo: 1955948 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|-------|------|----|-----|--|--|--|--|
| Chloride | 2.91 | 0.200 | 0.7500 | 2.078 | 111 | 80 | 120 | | | | |
| Nitrite (as N) | 0.721 | 0.200 | 0.7500 | 0 | 96.1 | 80 | 120 | | | | |
| Sulfate | 6.10 | 1.00 | 3.750 | 2.217 | 104 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2408189-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | |
| Client ID: BATCH | | Batch ID: 44836 | | | Analysis Date: 8/14/2024 | | | | | SeqNo: 1955973 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|-------|------|----|-----|--------|--------|----|--|
| Chloride | 2.91 | 0.200 | 0.7500 | 2.078 | 111 | 80 | 120 | 2.908 | 0.206 | 20 | |
| Nitrite (as N) | 0.718 | 0.200 | 0.7500 | 0 | 95.7 | 80 | 120 | 0.7210 | 0.417 | 20 | |
| Sulfate | 6.10 | 1.00 | 3.750 | 2.217 | 103 | 80 | 120 | 6.100 | 0.0820 | 20 | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2408124-015BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | |
| Client ID: BATCH | | Batch ID: 44836 | | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1955977 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 17.8 | 0.200 | | | | | | 17.83 | 0.168 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | ND | 1.00 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408124-015BMS | SampType: MS | Units: mg/L | | | Prep Date: 8/13/2024 | | | RunNo: 93626 | | | |
| Client ID: BATCH | Batch ID: 44836 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1955980 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 18.2 | 0.200 | 0.7500 | 17.83 | 42.8 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.696 | 0.200 | 0.7500 | 0 | 92.8 | 80 | 120 | | | | |
| Sulfate | 3.58 | 1.00 | 3.750 | 0 | 95.4 | 80 | 120 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R93564 | SampType: MBLK | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: MBLKW | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953246 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R93564 | SampType: LCS | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: LCSW | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953247 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.207 | 0.0500 | 0.2000 | 0 | 104 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-001CDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953251 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.278 | 0.0500 | | | | | | 0.2619 | 5.98 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2408076-001CMS | SampType: MS | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953252 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.433 | 0.0500 | 0.2000 | 0.2619 | 85.7 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|--|
| Sample ID: 2408076-001CMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 8/12/2024 | | | | RunNo: 93564 | | |
| Client ID: BATCH | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | | SeqNo: 1953253 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.430 | 0.0500 | 0.2000 | 0.2619 | 83.8 | 80 | 120 | 0.4333 | 0.864 | 20 | | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|------|----------------------|--------------------------|-------------|--------------|----------------|------|--|
| Sample ID: 2408139-002BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93564 | | | |
| Client ID: MW-3S | | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953264 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|---------------------------|--------|------------------|-----------|-------------|------|----------------------|--------------------------|-------------|--------------|----------------|------|--|
| Sample ID: 2408139-002BMS | | SampType: MS | | Units: mg/L | | Prep Date: 8/12/2024 | | | RunNo: 93564 | | | |
| Client ID: MW-3S | | Batch ID: R93564 | | | | | Analysis Date: 8/12/2024 | | | SeqNo: 1953265 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.174 | 0.0500 | 0.2000 | 0 | 86.9 | 80 | 120 | | | | | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS | SampType: LCS | Units: mg/L | | | Prep Date: 8/13/2024 | | | RunNo: 93616 | | | |
| Client ID: LCSW | Batch ID: R93616 | | | | Analysis Date: 8/13/2024 | | | SeqNo: 1954406 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 24.1 | 0.700 | 25.00 | 0 | 96.4 | 87.6 | 109 | | | | |

| | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB | SampType: MBLK | Units: mg/L | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | | |
| Client ID: MBLKW | Batch ID: R93616 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954408 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Sample ID: 2408076-001DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | | |
| Client ID: BATCH | Batch ID: R93616 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954410 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.3 | 0.700 | | | | | | 11.29 | 0.168 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408076-001DMS | SampType: MS | Units: mg/L | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | | |
| Client ID: BATCH | Batch ID: R93616 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954411 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 35.6 | 0.700 | 25.00 | 11.29 | 97.3 | 76.5 | 111 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2408076-001DMSD | SampType: MSD | Units: mg/L | | | Prep Date: 8/14/2024 | | | RunNo: 93616 | | | |
| Client ID: BATCH | Batch ID: R93616 | | | | Analysis Date: 8/14/2024 | | | SeqNo: 1954412 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 34.5 | 0.700 | 25.00 | 11.29 | 92.8 | 76.5 | 111 | 35.61 | 3.18 | 30 | |

Work Order: 2408139
CLIENT: Friedman & Bruya
Project: 408153

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| Sample ID: LCS-R93551 | | SampType: LCS | | Units: ppmv | | Prep Date: 8/9/2024 | | RunNo: 93551 | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | | Batch ID: R93551 | | | | Analysis Date: 8/9/2024 | | SeqNo: 1952884 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | 930 | 0.00500 | 1,000 | 0 | 93.0 | 73.6 | 124 | | | | |
| Ethene | 922 | 0.0100 | 1,000 | 0 | 92.2 | 76.3 | 122 | | | | |
| Ethane | 945 | 0.0100 | 1,000 | 0 | 94.5 | 76.1 | 123 | | | | |

| Sample ID: MB-R93551 | | SampType: MBLK | | Units: mg/L | | Prep Date: 8/9/2024 | | RunNo: 93551 | | | |
|-----------------------------|--------|-------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKW | | Batch ID: R93551 | | | | Analysis Date: 8/9/2024 | | SeqNo: 1952880 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| Sample ID: 2408117-001DREP | | SampType: REP | | Units: mg/L | | Prep Date: 8/9/2024 | | RunNo: 93551 | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: R93551 | | | | Analysis Date: 8/9/2024 | | SeqNo: 1952870 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2408139

Logged by: Morgan Wilson

Date Received: 8/8/2024 3:32:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

| | | | |
|----------------------|---------------------------------------|-------|--|
| Person Notified: | Michael Erdahl | Date: | 8/8/2024 |
| By Whom: | Morgan Wilson | Via: | <input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | x1 VOA for MW-S3 is labeled "Whidbey" | | |
| Client Instructions: | Part of MW-S3 Volume | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.4 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of 1

TURNAROUND TIME

☒ Standard TAT

☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

[illegible]

Data Usability Summary Report

Project Name: HNA Whidbey Marine

Project Description: Soil and Water Samples

Sample Date(s): 10 January through 7 February 2024

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Validation Performed by: Kathryn Lindenschmidt

Validation Reviewed by: Katherine Miller

Validation Date: 12 March 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Groups**
 - 2. Precision and Accuracy [for SDG(s) above]**
 - 3. Explanations**
 - 4. Glossary**
 - 5. Abbreviations**
 - 6. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Groups

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 401180, dated 8 February 2024;
- 401180, dated 9 February 2024;
- 401269, dated 9 February 2024;
- 402067, dated 16 February 2024;
- 402114, dated 19 February 2024;
- 402092, dated 20 February 2024;
- 402019, dated 21 February 2024;
- 401358, dated 26 February 2024; and
- 402067, dated 27 February 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Methods SW9060, E300, SM2320B, RSK175, SM4500-NH3G, SM5310C, SM4500-S2-D, NWTPH-EPH, and NWTPH-VPH were subcontracted to Fremont Analytical – Seattle, WA.

Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Issues noted with sample management are listed below:

- Custody seals were not used when samples were dropped off at the laboratory or service center by the field staff, submitted to a laboratory-provided courier, or when transported between subcontracted laboratories.
- Sample 402092-05 (Trip Blank) was not reported.

Analyses were performed on the samples listed in Table 1. Method holding times are listed in Table 2.

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification (ICV) and/or continuing calibration verification (CCV) exceedances. Since these additional quality control issues were not required as per the QAPP, these quality control issues were not reviewed.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed in Table 3. The validator chose the results that best met the DQOs of the project.

1.4 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

| Method | Matrix | Holding Time | Preservation | Sample ID, Violation, Qualification |
|----------------------|--------|--|----------------------------------|--|
| E300, nitrate (as N) | Water | 48 Hours | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were analyzed outside of holding time and were qualified J-: 2402100-001. |
| SW8260D | Soil | 14 days for solid, unpreserved | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were extracted outside of holding time and were qualified J/UJ: 401358-16, -17, -26. |
| NWTPH-VPH | Soil | 14 days for solid, preserved | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were analyzed outside of holding time and were qualified J/UJ: 2402008-004, 2401469-001, 2402008-005, and 2401315-001. |
| NWTPH-EPH | Soil | 14 days extraction / 40 days analysis for solid, unpreserved | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were extracted outside of holding time and were qualified J/UJ: 2402008-001 through -005 |

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.6 REPORTING BASIS (WET/DRY)

[Refer to Section E 1.1.](#) Soil data in these SDGs were reported on a dry weight basis, with the exception of Method SW9060.

Where reported, percent moisture were reviewed and found to be within limits.

1.7 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits, with the following exceptions:

| Method | Sample ID | Lab ID | Surrogate | Dilution | %R | Qualification |
|----------|-----------|-----------|----------------------|----------|-----------------|--------------------------|
| SW8270E | MW-19D-S2 | 401180-02 | 2,4,6-Tribromophenol | 250x | 200% | None, dilution > 5x |
| NWTPH-GX | MW21D-S7 | 401269-08 | - | 20x | 1p ¹ | None, dilution > 5x |
| SW8260D | HA-1-DUP | 401358-07 | Toluene-d8 | 1x | 122% | J+/None target compounds |
| SW8260D | HA-2-S7 | 401358-14 | Toluene-d8 | 1x | 136% | J+/None target compounds |
| SW8260D | HA-3-S6 | 401358-23 | Toluene-d8 | 1x | 135% | J+/None target compounds |
| SW8260D | MW-23D-S6 | 401358-27 | 4-Bromofluorobenzene | 1x | 124% | J+/None target compounds |
| NWTPH-GX | HA-4-S4 | 402019-04 | - | 10X | 183% | None, dilution > 5x |
| SW8270E | MW-23D | 402067-04 | 2,4,6-Tribromophenol | 1x | 280% | J+/None target compounds |
| SW8270E | HA-2-S7 | 401358-14 | 2,4,6-Tribromophenol | 5X | 184% | None, dilution > 5x |

1. Recovery fell outside of control limits due to sample matrix effects.

1.8 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

| SDG # | Sample Type | Method | Batch ID | Analyte | %R/RPD | Qualifier | Affected Samples |
|--------|-------------|-----------|----------|---------------------------------|--------|-----------|---|
| 401180 | LCS | SW8260D | - | Acetone | 51% | J/UJ | 401180-01, -02, -03, -04, -06, -08, -09, -10, and -11 |
| 401269 | LCS | NWTPH-VPH | 42713 | Aliphatic Hydrocarbon (C8-C10) | 203% | J/None | 2401469-001 |
| 401269 | LCS | NWTPH-VPH | 42713 | Aliphatic Hydrocarbon (C10-C12) | 131% | J/None | 2401469-001 |
| 401269 | LCS | NWTPH-VPH | 42713 | Aromatic Hydrocarbon (C8-C10) | 69.7% | J/UJ | 2401469-001 |
| 401269 | LCS | NWTPH-VPH | 42713 | Aromatic Hydrocarbon (C10-C12) | 62.7% | J/UJ | 2401469-001 |

| SDG # | Sample Type | Method | Batch ID | Analyte | %R/RPD | Qualifier | Affected Samples |
|--------|-------------|-----------|----------|--------------------------------|--------|-----------|------------------|
| 401269 | LCS | NWTPH-VPH | 42713 | Aromatic Hydrocarbon (C12-C13) | 62.2% | J/UJ | 2401469-001 |

1.9 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

| Lab Sample Number | Matrix Spike/Matrix Spike Duplicate Sample Client ID | Method(s) |
|------------------------|--|----------------------------|
| 402092-01, 2402100-001 | MW-19D-W | SW6020B, SW8260D, SM 5310C |
| 401180-04 | MW-19D-S4 | SW8260D |
| 401180-01 | MW-19D-S1 | SW8270E |
| 2401315-001 | MW-19D-S2 | NWTPH-EPH |
| 401269-01 | MW-20D-S6 | NWTPH-DX, SW6020B, SW8270E |
| 401269-06 | MW-21D-S5 | SW8260D |
| 2401469-001 | MW-21D-S7 | NWTPH-EPH |
| 2401419-001 | MW-21D-S2 | SW9060 |
| 401358-01 | HA-1-S1 | NWTPH-DX, SW6020B, SW8270E |
| 401358-15 | HA-2-S8 | NWTPH-DX, SW8260D |
| 401358-27 | MW-23D-S6 | SW6020B |
| 401358-02 | HA-1-S2 | SW8260D |
| 401358-24 | MW-23D-S3 | SW8260D |
| 2402008-005 | MW-23D-S6 | NWTPH-VPH |
| 402019-01 | HA-4-S1 | SW8270E |
| 2402047-001 | HA-4-S2 | SW9060 |
| 2402085-002 | MW-23D | SM4500-S2-D |

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits. Exceptions are listed in Table 4.

1.10 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

| Blank Type | Batch ID | Analyte Detected in Blank | Concentration (mg/Kg) | Qualifier | Affected Samples |
|--------------|----------|-------------------------------|-----------------------|-----------|------------------------------|
| Method Blank | 42713 | Aliphatic Hydrocarbon (C6-C8) | 0.989 J | NA | None, samples are >10x blank |
| | 42713 | Aromatic Hydrocarbon (C8-C10) | 1.30 J | NA | None, samples are >10x blank |

1.11 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

| Lab Sample Number | Laboratory Duplicate Sample Client ID | Method(s) |
|-------------------|---------------------------------------|--------------|
| 401358-29 | HA-1-GW | NWTPH-Gx |
| 2402008-003B | HA-2-S7 | NWTPH-VPH |
| 402019-01 | HA-4-S1 | NWTPH-Gx |
| 2402047-001A | HA-4-S2 | SW9060 |
| 2402085-001 | MW-22D | SM 2320B |
| 2402085-002C | MW-23D | SM 4500-S2-D |
| 402067-01 | MW-1S | NWTPH-Gx |
| 2402085-001A | MW-22D | SM 2320B |
| 2402085-002C | MW-23D | SM 4500-S2-D |
| 2401419-001A | MW-21D-S2 | SW9060 |
| 2402100-001A | MW-19D-W | SM2320B |
| 2402100-001C | MW-19D-W | SM 5310C |
| 402114-01 | MW-10D-W | NWTPH-Gx |
| 401180-01 | MW-19D-S1 | NWTPH-Gx |
| 2401315-001B | MW-19D-S2 | NWTPH-VPH |
| 2401469-001B | MW-21D-S7 | NWTPH-VPH |
| 2401419-001A | MW-21D-S2 | SW9060 |

| Lab Sample Number | Laboratory Duplicate Sample Client ID | Method(s)/Analyte | % RPD | Qualification |
|-------------------|---------------------------------------|-------------------------------|-------|------------------|
| 2401315-001B | MW-19D-S2 | Aliphatic Hydrocarbon (C6-C8) | 200% | J/UJ All Samples |
| 2401315-001B | MW-19D-S2 | Aromatic Hydrocarbon (C8-C10) | 32.7% | J/UJ All Samples |

The following sample(s) were used for field duplicate analysis. RPDs were all below 35 percent for water and 50 percent for soil (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|--|
| HA-3-GW | DUP-01 | NWTPH-DX, NWTPH-GX, SW8021B, and SM2540D |
| MW-21D-W | DUP-01 | SW8260D, SW8270E, NWTPH-DX, NWTPH-GX, SW6020B, SM2540D, E300, SM2320B, RSK175, SM4500-NH3G, SM5310C, SM4500-S2-D |
| HA-1-S6 | HA-1-DUP | SW8260D, SW8270E, NWTPH-DX, NWTPH-GX, SW6020B, NWTPH-EPH, NWTPH-VPH, SW9060 |
| MW-23D-DUP | MW-23D-S6 | SW8260D, SW8270E, NWTPH-DX, NWTPH-GX, SW6020B, SW9060 |

Field Duplicate RPD Calculations:

| Method | Analyte | Units | Primary Sample ID | Duplicate Sample ID | % RPD | Qualification |
|-------------|------------------------------|-------|-------------------|---------------------|-------|---------------------|
| | | | MW-21D-W | DUP-01 | | |
| SM2540D | Total Suspended Solids (TSS) | mg/L | 310 | 160 | 63.8% | J/UJ, RPD > 35% |
| SW6020B | Lead (total) | µg/L | 5.1 | 3.58 | NA | J/UJ, Abs Diff > RL |
| SM4500-S2-D | Sulfide | mg/L | 0.207 | 0.151 | NA | J/UJ, Abs Diff > RL |

| Method | Analyte | Units | Primary Sample ID | Duplicate Sample ID | % RPD | Qualification |
|----------|--|-------|-------------------|---------------------|-------|---------------------|
| | | | MW-23D-S6 | MW-23D-DUP | | |
| SW8260D | Toluene | mg/kg | 5.2 | 2.9 | 56.8% | J/UJ, RPD > 50% |
| NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO | mg/kg | 230 | 65 | NA | J/UJ, Abs Diff > RL |

| Method | Analyte | Units | Primary Sample ID | Duplicate Sample ID | % RPD | Qualification |
|-----------|---|-------|-------------------|---------------------|-------|---------------------|
| | | | HA-1-S6 | HA-1-DUP | | |
| SW8260D | 1,2,4-Trimethylbenzene | mg/kg | 1 | 190 | 197.9 | J/UJ, RPD > 50% |
| SW8260D | 1,3,5-Trimethylbenzene | mg/kg | 0.26 | 56 | 198.2 | J/UJ, RPD > 50% |
| SW8260D | Ethylbenzene | mg/kg | 0.32 | 63 | 198.0 | J/UJ, RPD > 50% |
| NWTPH-GX | Gasoline Range Organics | mg/kg | 2000 | 1000 | 66.7 | J/UJ, RPD > 50% |
| SW8260D | m,p-Xylenes | mg/kg | 1.3 | 260 | 198.0 | J/UJ, RPD > 50% |
| SW8260D | Naphthalene | mg/kg | 0.53 | 35 | 194.0 | J/UJ, RPD > 50% |
| SW8260D | n-Propylbenzene | mg/kg | 0.11 | 28 | 198.4 | J/UJ, RPD > 50% |
| SW8260D | o-Xylene | mg/kg | 0.56 | 94 | 197.6 | J/UJ, RPD > 50% |
| SW8260D | Toluene | mg/kg | 0.98 | 100 | 196.1 | J/UJ, RPD > 50% |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C8-C10) Aromatic | mg/kg | 101 | 1460 | 174.1 | J/UJ, RPD > 50% |
| SW8260D | 2-Phenylbutane (sec-Butylbenzene) | mg/kg | 0.050 U | 4 | NA | J/UJ, Abs Diff > RL |
| SW8260D | Benzene | mg/kg | 0.030 U | 0.13 | NA | J/UJ, Abs Diff > RL |
| SW8260D | Chloroform (Trichloromethane) | mg/kg | 0.050 U | 0.56 | NA | J/UJ, Abs Diff > RL |
| SW8260D | Cymene (p-Isopropyltoluene) | mg/kg | 0.050 U | 1.9 | NA | J/UJ, Abs Diff > RL |
| NWTPH-EPH | Extractable Petroleum Hydrocarbons (C16-C21) Aromatic | mg/kg | 11.3 UJ | 17.8 J- | NA | J/UJ, Abs Diff > RL |
| SW8260D | Hexane | mg/kg | 0.25 U | 8.9 | NA | J/UJ, Abs Diff > RL |
| SW8260D | Isopropylbenzene (Cumene) | mg/kg | 0.050 U | 8.3 | NA | J/UJ, Abs Diff > RL |
| SW8270E | Phenanthrene | mg/kg | 0.037 | 0.025 | NA | J/UJ, Abs Diff > RL |
| SW8270E | Pyrene | mg/kg | 0.011 | | NA | J/UJ, Abs Diff > RL |
| SW8260D | Styrene | mg/kg | 0.050 U | 3.6 | NA | J/UJ, Abs Diff > RL |
| SW8260D | Tetrachloroethene | mg/kg | 0.025 U | 0.035 | NA | J/UJ, Abs Diff > RL |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic | mg/kg | 43.8 | 469 | NA | J/UJ, Abs Diff > RL |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aromatic | mg/kg | 57.9 | 688 | NA | J/UJ, Abs Diff > RL |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C12-C13) Aromatic | mg/kg | 33.9 | 215 | NA | J/UJ, Abs Diff > RL |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic | mg/kg | 20 | 123 | NA | J/UJ, Abs Diff > RL |
| NWTPH-VPH | Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic | mg/kg | 17.1 U | 278 | NA | J/UJ, Abs Diff > RL |

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected, except for samples with multiple results reported as summarized in Table 3. A summary of qualifiers applied to this dataset is shown in Table 5.

2. Precision and Accuracy [for SDG(s) above]

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - FD Field Duplicate Sample
 - N Primary Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - GW/WG Groundwater
 - QW Water Quality
 - SO Soil
 - WQ Water Quality control matrix
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)
- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

5. Abbreviations

| | | | |
|----------------|--|-----------------|--|
| %D | Percent Difference | MDL | Laboratory Method Detection Limit |
| %R | Percent Recovery | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| %RSD | Percent Relative Standard Deviation | NA | not applicable |
| %v/v | Percent volume by volume | ND | Non-Detect |
| 2s | 2 sigma | NFG | National Functional Guidelines |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | NH ₃ | Ammonia |
| Abs Diff | Absolute Difference | NYSDEC | New York State Department of Environmental Conservation |
| amu | atomic mass unit | PAH | Polycyclic Aromatic Hydrocarbon |
| BPJ | Best Professional Judgement | PCB | Polychlorinated Biphenyl |
| BS | Blank Spike | PDS | Post-Digestion Spike |
| CCB | Continuing Calibration Blank | PEM | Performance Evaluation Mixture |
| CCV | Continuing Calibration Verification | PFAS | Per- and Polyfluoroalkyl Substances |
| CCVL | Continuing Calibration Verification Low | PFBA | Perfluorobutanoic Acid |
| COC | Chain of Custody | PFD | Perfluorodecalin |
| COM | Combined Isotope Calculation | PFOA | Perfluorooctanoic Acid |
| Cr (VI) | Hexavalent Chromium | PFOS | Perfluorooctane sulfonate |
| CRI | Collision Reaction Interface | PFPeA | Perfluoropentanoic Acid |
| DoD | Department of Defense | QAPP | Quality Assurance Project Plan |
| DQO | data quality objective | QC | Quality Control |
| DUSR | Data Usability Summary Report | QSM | Quality Systems Manual |
| EIS | Extraction Internal Standard | R ² | R-squared value |
| EMPC | Estimated Maximum Possible Concentration | Ra-226 | Radium-226 |
| FBK | Field Blank Contamination | Ra-228 | Radium-228 |
| FDP | Field Duplicate | RESC | Resolution Check Measure |
| GC | Gas Chromatograph | RL | Laboratory Reporting Limit |
| GC/MS | Gas Chromatography/Mass Spectrometry | RPD | Relative Percent Difference |
| GPC | Gel Permeation Chromatography | RRF | Relative Response Factor |
| H ₂ | Hydrogen gas | RT | Retention Time |
| HCl | Hydrochloric Acid | SAP | Sampling Analysis Plan |
| ICAL | Initial Calibration | SDG | Sample Delivery Group |
| ICB | Initial Calibration Blank | SIM | Selected ion monitoring |
| ICP/MS | Inductively Coupled Plasma/Mass Spectrometry | SOP | Standard Operating Procedure |
| ICV | Initial Calibration Verification | SPE | Solid-Phase Extraction |
| ICVL | Initial Calibration Verification Low | SVOC | Semi-Volatile Organic Compound |
| IPA | Isopropyl Alcohol | TCLP | Toxicity Characteristic Leaching Procedure |
| LC | Laboratory Control | TIC | Tentatively Identified Compound |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate | TKN | Total Kjeldahl Nitrogen |
| MBK | Method Blank Contamination | TPH | Total Petroleum Hydrocarbon |
| MDC | Minimum Detectable Concentration | TPU | Total Propagated Uncertainty |
| | | USEPA | U.S. Environmental Protection Agency |
| | | VOC | Volatile Organic Compound |
| | | WP | Work Plan |

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. Haley & Aldrich, Inc., 2024. Quality Assurance Project Plan. Whidbey Marine & Auto Supply Site. Freeland, Washington. January 2024.
2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1 – Sample Management
Table 2 – Method Holding Times
Table 3 – Reanalysis Summary
Table 4 – Matrix Spike/Matrix Spike Duplicates
Table 5 – System Performance Summary

TABLES

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|------------------|
| MW-19D-S2 | N | 2401315-001 | 1/10/2024 | SO | B, C |
| MW-21D-S7 | N | 2401469-001 | 1/16/2024 | SO | B,C |
| HA-1-S6 | N | 2402008-001 | 1/26/2024 | SO | B, C |
| HA-1-DUP | FD | 2402008-002 | 1/26/2024 | SO | B, C |
| HA-2-S7 | N | 2402008-003 | 1/25/2024 | SO | B, C |
| HA-3-S6 | N | 2402008-004 | 1/23/2024 | SO | B, C |
| MW-23D-S6 | N | 2402008-005 | 1/22/2024 | SO | B, C |
| HA-4-S2 | N | 2402047-001 | 1/29/2024 | SO | A |
| HA-4-S4 | N | 2402086-001 | 1/29/2024 | SO | B, C |
| HA-4-S4 | N | 2402047-002 | 1/29/2024 | SO | A |
| HA-4-S6 | N | 2402047-003 | 1/29/2024 | SO | A |
| MW-22D | N | 2402085-001 | 2/5/2024 | WG | K, L, M, N, O, P |
| MW-23D | N | 2402085-002 | 2/5/2024 | WG | K, L, M, N, O, P |
| MW-19D-W | N | 2402100-001 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-20D-W | N | 2402100-002 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-21D-W | N | 2402100-003 | 2/6/2024 | WG | K, L, M, N, O, P |
| DUP-01 | FD | 2402100-004 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-19D-S1 | N | 401180-01 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S2 | N | 401180-02 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S3 | N | 401180-03 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S4 | N | 401180-04 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S5 | N | 401180-05 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S6 | N | 401180-06 | 1/10/2024 | SO | D, E, F, G, H |
| HA-2-S1 | N | 401180-07 | 1/9/2024 | SO | Hold |
| MW-20D-S1 | N | 401180-08 | 1/11/2024 | SO | D, E, F, G, H |
| MW-20D-S2 | N | 401180-09 | 1/11/2024 | SO | D, E, F, G, H |
| MW-20D-S3 | N | 401180-10 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S4 | N | 401180-11 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S5 | N | 401180-12 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S6 | N | 401269-01 | 1/15/2024 | SO | D, E, F, G, H |
| MW-21D-S1 | N | 401269-02 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S2 | N | 401269-03 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S3 | N | 401269-04 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S4 | N | 401269-05 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S5 | N | 401269-06 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S6 | N | 401269-07 | 1/16/2024 | SO | F, G, I |
| MW-21D-S7 | N | 401269-08 | 1/16/2024 | SO | D, E, F, G, H |
| MW-22D-S1 | N | 401269-09 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S2 | N | 401269-10 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S3 | N | 401269-11 | 1/17/2024 | SO | Hold |
| MW-22D-S4 | N | 401269-12 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S5 | N | 401269-13 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S6 | N | 401269-14 | 1/18/2024 | SO | Hold |

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|---------------|
| MW-22D-S7 | N | 401269-15 | 1/19/2024 | SO | Hold |
| MW-22D-S8 | N | 401269-16 | 1/19/2024 | SO | D, E, F, G, H |
| MW-23D-S1 | N | 401269-17 | 1/19/2024 | SO | D, E, F, G, H |
| MW-23D-S2 | N | 401269-18 | 1/19/2024 | SO | D, E, F, G, H |
| MW-22D-GRAB | N | 401269-19 | 1/18/2024 | WG | D, F, G, I, J |
| HA-1-S1 | N | 401358-01 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S2 | N | 401358-02 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S3 | N | 401358-03 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S4 | N | 401358-04 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S5 | N | 401358-05 | 1/26/2024 | SO | Hold |
| HA-1-S6 | N | 401358-06 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-DUP | FD | 401358-07 | 1/26/2024 | SO | D, E, F, G, J |
| HA-2-S1.5 | N | 401358-08 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S2 | N | 401358-09 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S3 | N | 401358-10 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S4 | N | 401358-11 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S5 | N | 401358-12 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S6 | N | 401358-13 | 1/24/2024 | SO | Hold |
| HA-2-S7 | N | 401358-14 | 1/25/2024 | SO | D, E, F, G, J |
| HA-2-S8 | N | 401358-15 | 1/25/2024 | SO | D, E, F, G, J |
| HA-2-S9 | N | 401358-16 | 1/25/2024 | SO | D, G, G, I |
| HA-2-S10 | N | 401358-17 | 1/25/2024 | SO | D, G, G, I |
| HA-3-S1 | N | 401358-18 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S2 | N | 401358-19 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S3 | N | 401358-20 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S4 | N | 401358-21 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S5 | N | 401358-22 | 1/23/2024 | SO | Hold |
| HA-3-S6 | N | 401358-23 | 1/23/2024 | SO | D, E, F, G, J |
| MW-23D-S3 | N | 401358-24 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-S4 | N | 401358-25 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-S5 | N | 401358-26 | 1/22/2024 | SO | D, F, G, I |
| MW-23D-S6 | N | 401358-27 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-DUP | N | 401358-28 | 1/22/2024 | SO | D, E, F, G, J |
| HA-1-GW | N | 401358-29 | 1/26/2024 | WG | D, F, G, I |
| HA-2-GW | N | 401358-30 | 1/24/2024 | WG | D, F, G, I |
| HA-3-GW | N | 401358-31 | 1/23/2024 | WG | F, G, I, J |
| DUP-01 | FD | 401358-32 | 1/23/2024 | WG | F, G, I, J |
| HA-4-S1 | N | 402019-01 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S2 | N | 402019-02 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S3 | N | 402019-03 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S4 | N | 402019-04 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S5 | N | 402019-05 | 1/29/2024 | SO | D, F, I |
| HA-4-S6 | N | 402019-06 | 1/29/2024 | SO | D, E, F, G, H |

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|------------------|
| MW-1S | N | 402067-01 | 2/5/2024 | WG | D, F, I |
| MW-3S | N | 402067-02 | 2/5/2024 | WG | D, F, I |
| MW-22D | N | 402067-03 | 2/5/2024 | WG | D, E, F, G, H, J |
| MW-23D | N | 402067-04 | 2/5/2024 | WG | D, E, F, G, H, J |
| MW-19D-W | N | 402092-01 | 2/6/2024 | WG | D, E, F, G, H, J |
| MW-20D-W | N | 402092-02 | 2/6/2024 | WG | D, E, F, G, H, J |
| MW-21D-W | N | 402092-03 | 2/6/2024 | WG | D, E, F, G, H, J |
| DUP-01 | FD | 402092-04 | 2/6/2024 | WG | D, E, F, G, H, J |
| Trip Blank | TB | 402092-05 | 2/6/2024 | WG | D |
| MW-10D-W | N | 402114-01 | 2/7/2024 | WG | F,G,I |
| MW-11D-W | N | 402114-02 | 2/7/2024 | WG | F,G,I |
| MW-21D-S2 | N | 2401419-001 | 1/16/2024 | SO | A |
| MW-21D-S4 | N | 2401419-002 | 1/16/2024 | SO | A |
| MW-21D-S7 | N | 2401419-003 | 1/16/2024 | SO | A |
| MW-23D-S2 | N | 2401419-004 | 1/19/2024 | SO | A |
| HA-1-S2 | N | 2401541-001A | 1/26/2024 | SO | A |
| HA-1-S4 | N | 2401541-002A | 1/26/2024 | SO | A |
| HA-1-S6 | N | 2401541-003A | 1/26/2024 | SO | A |
| HA-1-DUP | FD | 2401541-004A | 1/26/2024 | SO | A |
| HA-2-S3 | N | 2401541-005A | 1/24/2024 | SO | A |
| HA-2-S5 | N | 2401541-006A | 1/24/2024 | SO | A |
| HA-2-S7 | N | 2401541-007A | 1/25/2024 | SO | A |
| MW-23D-S4 | N | 2401541-008A | 1/22/2024 | SO | A |
| MW-23D-S6 | N | 2401541-009A | 1/22/2024 | SO | A |
| MW-23D-DUP | FD | 2401541-010A | 1/22/2024 | SO | A |

TABLE 2
METHOD HOLDING TIMES
HNA WHIDBEY MARINE

| Analytic Method | | Description | Holding Time |
|-----------------|-------------|---|--|
| A | SW9060 | Total Organic Carbon (TOC) | 28 days for liquid preserved |
| B | NWTPH-EPH | EXTRACTABLE PETROLEUM HYDROCARBON FRACTIONS | 14 days extraction / 40 days analysis for solid, unpreserved |
| C | NWTPH-VPH | VOLATILE PETROLEUM HYDROCARBON FRACTIONS | 14 days for solid, preserved |
| D | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid, unpreserved |
| E | SW8270E | Polycyclic Aromatic Hydrocarbons (PAHs) | 7 days extraction / 40 days analysis for liquid, unpreserved, 14 days extraction / 40 days analysis for solid, unpreserved |
| F | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid unpreserved |
| G | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid unpreserved |
| H | SW6020B | Metals | 180 days for liquid, preserved , 180 days for solid unpreserved |
| I | SW8021B | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved ,14 days for solid unpreserved |
| J | SM2540D | Total Suspended Solids | 28 days for liquid unpreserved |
| K | E300 | Sulfate, Chloride | 28 days for liquid unpreserved |
| | E300 | Nitrate, Nitrite | 48 hours for liquid unpreserved |
| L | SM2320B | Alkalinity | 14 days for liquid unpreserved |
| M | RSK175 | Dissolved Gases | 14 days for liquid, preserved 7 days for liquid unpreserved |
| N | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid, preserved |
| O | SM5310C | Total Organic Carbon | 28 days for liquid, preserved |
| P | SM4500-S2-D | TOTAL SULFIDES | 7 days for liquid, preserved |

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-------------|------------------------|-----------|---|
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aromatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C12-C13) Aromatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C8-C10) Aromatic |
| 2402100-001 | 2/7/24 20:43 | E300 | Nitrate |
| 401180-02 | 1/15/24 15:43 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 401180-02 | 1/15/24 15:43 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(a)pyrene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(b)fluoranthene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(g,h,i)perylene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(k)fluoranthene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Dibenz(a,h)anthracene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Indeno(1,2,3-cd)pyrene |
| 401269-08 | 1/23/24 15:48 | SW8260D | 1,2,4-Trimethylbenzene |
| 401269-08 | 1/23/24 15:48 | SW8260D | 1,3,5-Trimethylbenzene |
| 401269-08 | 1/24/24 19:44 | SW8270E | 2-Methylnaphthalene |
| 401269-08 | 1/24/24 19:44 | SW8270E | Naphthalene |
| 401358-07 | 1/31/24 13:15 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | Ethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | m,p-Xylenes |
| 401358-07 | 1/31/24 13:15 | SW8260D | Naphthalene |
| 401358-07 | 1/31/24 13:15 | SW8260D | n-Propylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | o-Xylene |
| 401358-07 | 1/31/24 13:15 | SW8260D | Toluene |
| 401358-14 | 1/31/24 14:29 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Ethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Isopropylbenzene (Cumene) |
| 401358-14 | 1/31/24 14:29 | SW8260D | m,p-Xylenes |
| 401358-14 | 1/31/24 14:29 | SW8260D | Naphthalene |
| 401358-14 | 1/31/24 14:29 | SW8260D | n-Propylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | o-Xylene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Toluene |
| 401358-14 | 1/30/24 18:10 | SW8270E | 1-Methylnaphthalene |
| 401358-14 | 1/30/24 18:10 | SW8270E | 2-Methylnaphthalene |
| 401358-14 | 1/30/24 18:10 | SW8270E | Naphthalene |
| 401358-23 | 1/31/24 14:53 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Ethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Hexane |
| 401358-23 | 1/31/24 14:53 | SW8260D | Isopropylbenzene (Cumene) |
| 401358-23 | 1/31/24 14:53 | SW8260D | m,p-Xylenes |

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-----------|------------------------|---------|---|
| 401358-23 | 1/31/24 14:53 | SW8260D | Naphthalene |
| 401358-23 | 1/31/24 14:53 | SW8260D | n-Propylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | o-Xylene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Toluene |
| 401358-23 | 1/30/24 20:54 | SW8270E | 2-Methylnaphthalene |
| 402067-04 | 2/8/24 19:52 | SW8270E | Naphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,1,2-Tetrachloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,1-Trichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,2,2-Tetrachloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,2-Trichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloropropene |
| 402067-04 | 2/19/24 19:30 | SW8260D | 1,2,3-Trichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,3-Trichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,4-Trichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,4-Trimethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dibromo-3-chloropropane (DBCP) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dibromoethane (Ethylene Dibromide) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3,5-Trimethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3-Dichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,4-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2,2-Dichloropropane |
| 402067-04 | 2/19/24 19:30 | SW8260D | 2-Butanone (Methyl Ethyl Ketone) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Chlorotoluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Hexanone (Methyl Butyl Ketone) |
| 402067-04 | 2/8/24 19:52 | SW8270E | 2-Methylnaphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Phenylbutane (sec-Butylbenzene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 4-Chlorotoluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Acetone |
| 402067-04 | 2/7/24 0:00 | SW8260D | Benzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromodichloromethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromoform |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromomethane (Methyl Bromide) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Carbon tetrachloride |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloroethane |

TABLE 3
REANALYSIS SUMMARY
HNA WHIDBEY MARINE

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-----------|------------------------|----------|--|
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloroform (Trichloromethane) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloromethane (Methyl Chloride) |
| 402067-04 | 2/7/24 0:00 | SW8260D | cis-1,2-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | cis-1,3-Dichloropropene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Cymene (p-Isopropyltoluene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dibromochloromethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dibromomethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dichlorodifluoromethane (CFC-12) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Ethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Hexachlorobutadiene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Hexane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Isopropylbenzene (Cumene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | m,p-Xylenes |
| 402067-04 | 2/7/24 0:00 | SW8260D | Methyl Tert Butyl Ether (MTBE) |
| 402067-04 | 2/19/24 19:30 | SW8260D | Methylene chloride (Dichloromethane) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Naphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | n-Propylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | o-Xylene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Styrene |
| 402067-04 | 2/7/24 0:00 | SW8260D | tert-Butylbenzene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Tetrachloroethene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Toluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | trans-1,2-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | trans-1,3-Dichloropropene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Trichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Trichlorofluoromethane (CFC-11) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Vinyl chloride |
| 402092-01 | 2/8/24 19:14 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-01 | 2/8/24 19:14 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-02 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-02 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-03 | 2/9/24 10:37 | SW8270E | Naphthalene |
| 402092-03 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-03 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-04 | 2/9/24 12:16 | SW8270E | Naphthalene |
| 402092-04 | 2/8/24 0:00 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-04 | 2/8/24 0:00 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402114-01 | 2/9/24 11:38 | NWTPH-DX | Diesel Range Hydrocarbons (DRH) |
| 402114-01 | 2/9/24 11:38 | NWTPH-DX | Residual Range Hydrocarbons |
| 402114-02 | 2/9/24 11:38 | NWTPH-DX | Diesel Range Hydrocarbons (DRH) |
| 402114-02 | 2/9/24 11:38 | NWTPH-DX | Residual Range Hydrocarbons |

TABLE 4
MATRIX SPIKE/MATRIX SPIKE DUPLICATES
HNA WHIDBEY MARINE

| Sample Type | Method | Batch ID | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|-----------|-------------|---------------------------------|------------|-----------|---|
| MS | NWTPH-EPH | 2401469-001 | Aromatic Hydrocarbon (C10-C12) | 132% /135% | NA | None, confirmation matrix spike within limits |
| MS/MSD | SW8260D | 401358-24 | Benzene | 132%/130% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Toluene | 135%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,3-Dichloropropane | 142%/148% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Tetrachloroethene | 1.35 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2-Dibromoethane (EDB) | 1.43 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Chlorobenzene | 135%/140% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Ethylbenzene | 139%/142% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | m,p-Xylene | 138%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | o-Xylene | 135%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Styrene | 140%/143% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Bromobenzene | 146%/143% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,1,2,2-Tetrachloroethane | 149%/146% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2,3-Trichloropropane | 157%/153% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 2-Chlorotoluene | 143%/140% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 4-Chlorotoluene | 145%/142% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | tert-Butylbenzene | 141%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | sec-Butylbenzene | 1.48 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,3-Dichlorobenzene | 134%/134% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,4-Dichlorobenzene | 141%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2-Dichlorobenzene | 139%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Hexachlorobutadiene | 151%/147% | J/None | None, sample ND |
| MS | NWTPH-VPH | 2402008-005 | Aliphatic Hydrocarbon (C10-C12) | 63% | NA | None, native sample > 4x the spike added |
| MS | NWTPH-VPH | 2402008-005 | Aromatic Hydrocarbon (C10-C12) | 15.60% | NA | None, native sample > 4x the spike added |
| MS | NWTPH-VPH | 2402008-005 | Aromatic Hydrocarbon (C12-C13) | 68.80% | NA | None, native sample > 4x the spike added |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|-----------|-------------------|-------------|---|-----------------|------------------|----------------------|
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic | 2.13 Q+ | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C10-C12) Aromatic | 1.29 Q- | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C12-C13) Aromatic | 1.22 Q- | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C8-C10) Aromatic | 0.831 Q -J | R | VCM |
| 402092 | E300 | MW-19D-W-20240206 | 2402100-001 | Nitrate (as N) | 34.7 E | R | EXE |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(a)pyrene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(b)fluoranthene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(g,h,i)perylene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(k)fluoranthene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Dibenz(a,h)anthracene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Indeno(1,2,3-cd)pyrene | ND UJ | R | VCM |
| 401180 | NWTPH-DX | MW-19D-S2 | 401180-02 | Total Petroleum Hydrocarbons (C10-C25) DRO | 370 | R | VCM |
| 401180 | NWTPH-DX | MW-19D-S2 | 401180-02 | Total Petroleum Hydrocarbons (C25-C36) ORO | 1700 | R | VCM |
| 401269 | SW8260D | MW-21D-S7 | 401269-08 | 1,2,4-Trimethylbenzene | 19 E | R | EXE |
| 401269 | SW8260D | MW-21D-S7 | 401269-08 | 1,3,5-Trimethylbenzene | 8.5 E | R | EXE |
| 401269 | SW8270E | MW-21D-S7 | 401269-08 | 2-Methylnaphthalene | 16 E | R | EXE |
| 401269 | SW8270E | MW-21D-S7 | 401269-08 | Naphthalene | 6.5 E | R | EXE |
| 401269 | SW8260D | MW-22D-S1 | 401269-09 | 1,2-Dibromo-3-chloropropane (DBCP) | 0.5 EJ | R | EXE |
| 401269 | SW8260D | MW-22D-S1 | 401269-09 | Acetone | 5 EJ | R | EXE |
| 401269 | SW8260D | MW-23D-S1 | 401269-17 | 1,2-Dibromo-3-chloropropane (DBCP) | 0.5 EJ | R | EXE |
| 401269 | SW8260D | MW-23D-S1 | 401269-17 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S1 | 401358-01 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S2 | 401358-02 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S3 | 401358-03 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S4 | 401358-04 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | 1,2,4-Trimethylbenzene | 120 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | 1,3,5-Trimethylbenzene | 66 E | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Ethylbenzene | 69 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | m,p-Xylenes | 240 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Naphthalene | 43 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | n-Propylbenzene | 34 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | o-Xylene | 120 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Toluene | 120 E | R | EXE |
| 401358 | SW8260D | HA-2-S1.5 | 401358-08 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S2 | 401358-09 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S3 | 401358-10 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S4 | 401358-11 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S5 | 401358-12 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | 1,2,4-Trimethylbenzene | 180E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | 1,3,5-Trimethylbenzene | 110E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | 1-Methylnaphthalene | 13E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | 2-Methylnaphthalene | 27E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Ethylbenzene | 120E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Hexane | 49E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Isopropylbenzene (Cumene) | 18E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | m,p-Xylenes | 400E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Naphthalene | 75E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | Naphthalene | 24E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | n-Propylbenzene | 73E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | o-Xylene | 250E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Toluene | 250E | R | EXE |
| 401358 | SW8260D | HA-2-S8 | 401358-15 | Trichlorofluoromethane (CFC-11) | 0.5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S1 | 401358-18 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S2 | 401358-19 | Acetone | 5 EJ | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 401358 | SW8260D | HA-3-S3 | 401358-20 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S4 | 401358-21 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | 1,2,4-Trimethylbenzene | 200E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | 1,3,5-Trimethylbenzene | 120E | R | EXE |
| 401358 | SW8270E | HA-3-S6 | 401358-23 | 2-Methylnaphthalene | 11E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Ethylbenzene | 150E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Hexane | 260E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Isopropylbenzene (Cumene) | 25E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | m,p-Xylenes | 430E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Naphthalene | 76E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | n-Propylbenzene | 93E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | o-Xylene | 240E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Toluene | 130 E | R | EXE |
| 401358 | SW8260D | MW-23D-S3 | 401358-24 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | MW-23D-S4 | 401358-25 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S1 | 402019-01 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S2 | 402019-02 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S3 | 402019-03 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S4 | 402019-04 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S6 | 402019-06 | Acetone | 5 EJ | R | EXE |
| 402067 | SW8260D | MW-22D-20240205 | 402067-03 | Acetone | 50 EJ | R | EXE |
| 402067 | SW8260D | MW-22D-20240205 | 402067-03 | Trichlorofluoromethane (CFC-11) | 1 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,1,2-Tetrachloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,1-Trichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,2,2-Tetrachloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,2-Trichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloroethane | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|---|-----------------|------------------|----------------------|
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,3-Trichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,4-Trichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,4-Trimethylbenzene | 580 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dibromoethane (Ethylene Dibromide) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3,5-Trimethylbenzene | 220 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,4-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2,2-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Chlorotoluene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Hexanone (Methyl Butyl Ketone) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Phenylbutane (sec-Butylbenzene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 4-Chlorotoluene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Benzene | 11 T | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromodichloromethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromoform | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromomethane (Methyl Bromide) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Carbon tetrachloride | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chlorobenzene | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|--------------------------------------|-----------------|------------------|----------------------|
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloroform (Trichloromethane) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | cis-1,2-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | cis-1,3-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Cymene (p-Isopropyltoluene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dibromochloromethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dibromomethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dichlorodifluoromethane (CFC-12) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Ethylbenzene | 1300 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Hexachlorobutadiene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Hexane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Isopropylbenzene (Cumene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | m,p-Xylenes | 4400 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Methyl Tert Butyl Ether (MTBE) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Methylene chloride (Dichloromethane) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Naphthalene | 380 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | n-Propylbenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | o-Xylene | 1000 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Styrene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | tert-Butylbenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Tetrachloroethene | ND UJ | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | trans-1,2-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | trans-1,3-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Trichloroethene | ND UJ | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Vinyl chloride | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,3-Trichlorobenzene | 50 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Butanone (Methyl Ethyl Ketone) | 1000 EJ | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|----------|-------------------|-----------|--|-----------------|------------------|----------------------|
| 402067 | SW8270E | MW-23D-20240205 | 402067-04 | 2-Methylnaphthalene | 72 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Acetone | 10000 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Acetone | 2500 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloromethane (Methyl Chloride) | 500 EJ | R | EXE |
| 402067 | SW8270E | MW-23D-20240205 | 402067-04 | Naphthalene | 160 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Toluene | 14000 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Trichlorofluoromethane (CFC-11) | 200 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-19D-W-20240206 | 402092-01 | Total Petroleum Hydrocarbons (C10-C25) DRO | ND | R | VCM |
| 402092 | NWTPH-DX | MW-19D-W-20240206 | 402092-01 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-19D-W-20240206 | 402092-01 | 2-Butanone (Methyl Ethyl Ketone) | 20 EJ | R | EXE |
| 402092 | SW8260D | MW-19D-W-20240206 | 402092-01 | Acetone | 50 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-20D-W-20240206 | 402092-02 | Total Petroleum Hydrocarbons (C10-C25) DRO | 110 | R | VCM |
| 402092 | NWTPH-DX | MW-20D-W-20240206 | 402092-02 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-20D-W-20240206 | 402092-02 | 2-Butanone (Methyl Ethyl Ketone) | 20 EJ | R | EXE |
| 402092 | SW8260D | MW-20D-W-20240206 | 402092-02 | Acetone | 50 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-21D-W-20240206 | 402092-03 | Total Petroleum Hydrocarbons (C10-C25) DRO | 1600 | R | VCM |
| 402092 | NWTPH-DX | MW-21D-W-20240206 | 402092-03 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-21D-W-20240206 | 402092-03 | 2-Butanone (Methyl Ethyl Ketone) | 200 EJ | R | EXE |
| 402092 | SW8260D | MW-21D-W-20240206 | 402092-03 | Acetone | 500 EJ | R | EXE |
| 402092 | SW8270E | MW-21D-W-20240206 | 402092-03 | Naphthalene | 37 E | R | EXE |
| 402092 | NWTPH-DX | DUP-01-20240206 | 402092-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | 1600 | R | VCM |
| 402092 | NWTPH-DX | DUP-01-20240206 | 402092-04 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | DUP-01-20240206 | 402092-04 | 2-Butanone (Methyl Ethyl Ketone) | 200 EJ | R | EXE |
| 402092 | SW8260D | DUP-01-20240206 | 402092-04 | Acetone | 500 EJ | R | EXE |
| 402092 | SW8270E | DUP-01-20240206 | 402092-04 | Naphthalene | 39 E | R | EXE |
| 402114 | NWTPH-DX | MW-10D-W-20240207 | 402114-01 | Diesel Range Hydrocarbons (DRH) | ND | R | VCM |
| 402114 | NWTPH-DX | MW-10D-W-20240207 | 402114-01 | Residual Range Hydrocarbons | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|----------|-------------------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 402114 | NWTPH-DX | MW-11D-W-20240207 | 402114-02 | Diesel Range Hydrocarbons (DRH) | 71 | R | VCM |
| 402114 | NWTPH-DX | MW-11D-W-20240207 | 402114-02 | Residual Range Hydrocarbons | ND | R | VCM |

- Notes:**
- VCM Validator's choice of method.
 - FDP Field duplicate relative percent difference exceeds limits or exceeds the absolute difference rule (used when results are less than 5x the RL).
 - EXE Result exceeds the calibration range.
 - DUP Laboratory duplicate relative percent difference exceeds limits.
 - SUR Surrogate percent recovery outside acceptance limits.
 - HTQ Holding Time exceeded.
 - LCS Laboratory Control/Laboratory Control Spike Duplicate percent recoveries or relative percent difference were outside acceptance limits.

Data Usability Summary Report

Project Name: HNA Whidbey Marine

Project Description: Soil and Water Samples

Sample Date(s): 10 January through 7 February 2024

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Validation Performed by: Kathryn Lindenschmidt

Validation Reviewed by: Katherine Miller

Validation Date: 8 March 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers 309479 and 309532**
 - 2. Explanations**
 - 3. Glossary**
 - 4. Abbreviations**
 - 5. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers 309479 and 309532

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of trichloroethene in the SDG number(s):

- 309479, dated 21 November 2023; and
- 309532, dated 21 November 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the following samples:

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods | Holding Time |
|-----------|-------------|-----------|-------------|--------|---------|--|
| MW-17D-GW | N | 309479-01 | 9/27/2023 | WG | SW8260D | 7 days unpreserved; 14 days preserved |
| MW-8S-GW | N | 309479-02 | 9/27/2023 | WG | | |
| MW-13D-GW | N | 309479-03 | 9/27/2023 | WG | | |
| MW-15D-GW | N | 309479-04 | 9/27/2023 | WG | | |
| MW-16D-GW | N | 309479-05 | 9/27/2023 | WG | | |
| MW-4S | N | 309532-01 | 9/28/2023 | WG | | |
| MW-2S | N | 309532-02 | 9/28/2023 | WG | | |
| MW-6S | N | 309532-03 | 9/28/2023 | WG | | |
| MW-9D | N | 309532-04 | 9/28/2023 | WG | | |
| MW-12D | N | 309532-05 | 9/28/2023 | WG | | |
| FD-01 | FD | 309532-06 | 9/28/2023 | WG | | |

1.2 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

| Lab ID | Analysis Date | Method | Analyte | Qualification |
|--------|---------------|---------|-----------------|---|
| MW-4S | 10/2/2023 | SW8260D | Trichloroethene | The 8260D trichloroethene was reanalyzed to achieve a <4 µg/L reporting limits. |
| MW-9D | 10/2/2023 | SW8260D | Trichloroethene | |
| MW-12D | 10/2/2023 | SW8260D | Trichloroethene | |
| FD-01 | 10/2/2023 | SW8260D | Trichloroethene | |

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.5 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.6 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.7 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) No client samples were used for matrix spike/matrix spike duplicate (MS/MSD) analysis in this SDG.

1.8 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.9 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|-----------|
| MW-9D | FD-01 | SW8260D |

1.10 PRECISION AND ACCURACY

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.11 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - GW/WG Groundwater
 - QW Water Quality
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)
- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

4. Abbreviations

| | | | |
|----------------|--|-----------------|--|
| %D | Percent Difference | MDL | Laboratory Method Detection Limit |
| %R | Percent Recovery | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| %RSD | Percent Relative Standard Deviation | NA | not applicable |
| %v/v | Percent volume by volume | ND | Non-Detect |
| 2s | 2 sigma | NFG | National Functional Guidelines |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | NH ₃ | Ammonia |
| Abs Diff | Absolute Difference | NYSDEC | New York State Department of Environmental Conservation |
| amu | atomic mass unit | PAH | Polycyclic Aromatic Hydrocarbon |
| BPJ | Best Professional Judgement | PCB | Polychlorinated Biphenyl |
| BS | Blank Spike | PDS | Post-Digestion Spike |
| CCB | Continuing Calibration Blank | PEM | Performance Evaluation Mixture |
| CCV | Continuing Calibration Verification | PFAS | Per- and Polyfluoroalkyl Substances |
| CCVL | Continuing Calibration Verification Low | PFBA | Perfluorobutanoic Acid |
| COC | Chain of Custody | PFD | Perfluorodecalin |
| COM | Combined Isotope Calculation | PFOA | Perfluorooctanoic Acid |
| Cr (VI) | Hexavalent Chromium | PFOS | Perfluorooctane sulfonate |
| CRI | Collision Reaction Interface | PFPeA | Perfluoropentanoic Acid |
| DoD | Department of Defense | QAPP | Quality Assurance Project Plan |
| DQO | data quality objective | QC | Quality Control |
| DUSR | Data Usability Summary Report | QSM | Quality Systems Manual |
| EIS | Extraction Internal Standard | R ² | R-squared value |
| EMPC | Estimated Maximum Possible Concentration | Ra-226 | Radium-226 |
| FBK | Field Blank Contamination | Ra-228 | Radium-228 |
| FDP | Field Duplicate | RESC | Resolution Check Measure |
| GC | Gas Chromatograph | RL | Laboratory Reporting Limit |
| GC/MS | Gas Chromatography/Mass Spectrometry | RPD | Relative Percent Difference |
| GPC | Gel Permeation Chromatography | RRF | Relative Response Factor |
| H ₂ | Hydrogen gas | RT | Retention Time |
| HCl | Hydrochloric Acid | SAP | Sampling Analysis Plan |
| ICAL | Initial Calibration | SDG | Sample Delivery Group |
| ICB | Initial Calibration Blank | SIM | Selected ion monitoring |
| ICP/MS | Inductively Coupled Plasma/Mass Spectrometry | SOP | Standard Operating Procedure |
| ICV | Initial Calibration Verification | SPE | Solid-Phase Extraction |
| ICVL | Initial Calibration Verification Low | SVOC | Semi-Volatile Organic Compound |
| IPA | Isopropyl Alcohol | TCLP | Toxicity Characteristic Leaching Procedure |
| LC | Laboratory Control | TIC | Tentatively Identified Compound |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate | TKN | Total Kjeldahl Nitrogen |
| MBK | Method Blank Contamination | TPH | Total Petroleum Hydrocarbon |
| MDC | Minimum Detectable Concentration | TPU | Total Propagated Uncertainty |
| | | USEPA | U.S. Environmental Protection Agency |
| | | VOC | Volatile Organic Compound |
| | | WP | Work Plan |

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. Haley & Aldrich, Inc., 2024. Quality Assurance Project Plan. Whidbey Marine & Auto Supply Site. Freeland, Washington. January 2024.
2. United States Environmental Protection Agency, 2020. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|------------------|
| MW-19D-S2 | N | 2401315-001 | 1/10/2024 | SO | B, C |
| MW-21D-S7 | N | 2401469-001 | 1/16/2024 | SO | B,C |
| HA-1-S6 | N | 2402008-001 | 1/26/2024 | SO | B, C |
| HA-1-DUP | FD | 2402008-002 | 1/26/2024 | SO | B, C |
| HA-2-S7 | N | 2402008-003 | 1/25/2024 | SO | B, C |
| HA-3-S6 | N | 2402008-004 | 1/23/2024 | SO | B, C |
| MW-23D-S6 | N | 2402008-005 | 1/22/2024 | SO | B, C |
| HA-4-S2 | N | 2402047-001 | 1/29/2024 | SO | A |
| HA-4-S4 | N | 2402086-001 | 1/29/2024 | SO | B, C |
| HA-4-S4 | N | 2402047-002 | 1/29/2024 | SO | A |
| HA-4-S6 | N | 2402047-003 | 1/29/2024 | SO | A |
| MW-22D | N | 2402085-001 | 2/5/2024 | WG | K, L, M, N, O, P |
| MW-23D | N | 2402085-002 | 2/5/2024 | WG | K, L, M, N, O, P |
| MW-19D-W | N | 2402100-001 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-20D-W | N | 2402100-002 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-21D-W | N | 2402100-003 | 2/6/2024 | WG | K, L, M, N, O, P |
| DUP-01 | FD | 2402100-004 | 2/6/2024 | WG | K, L, M, N, O, P |
| MW-19D-S1 | N | 401180-01 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S2 | N | 401180-02 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S3 | N | 401180-03 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S4 | N | 401180-04 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S5 | N | 401180-05 | 1/10/2024 | SO | D, E, F, G, H |
| MW-19D-S6 | N | 401180-06 | 1/10/2024 | SO | D, E, F, G, H |
| HA-2-S1 | N | 401180-07 | 1/9/2024 | SO | Hold |
| MW-20D-S1 | N | 401180-08 | 1/11/2024 | SO | D, E, F, G, H |
| MW-20D-S2 | N | 401180-09 | 1/11/2024 | SO | D, E, F, G, H |
| MW-20D-S3 | N | 401180-10 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S4 | N | 401180-11 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S5 | N | 401180-12 | 1/12/2024 | SO | D, E, F, G, H |
| MW-20D-S6 | N | 401269-01 | 1/15/2024 | SO | D, E, F, G, H |
| MW-21D-S1 | N | 401269-02 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S2 | N | 401269-03 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S3 | N | 401269-04 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S4 | N | 401269-05 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S5 | N | 401269-06 | 1/16/2024 | SO | D, E, F, G, H |
| MW-21D-S6 | N | 401269-07 | 1/16/2024 | SO | F, G, I |
| MW-21D-S7 | N | 401269-08 | 1/16/2024 | SO | D, E, F, G, H |
| MW-22D-S1 | N | 401269-09 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S2 | N | 401269-10 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S3 | N | 401269-11 | 1/17/2024 | SO | Hold |
| MW-22D-S4 | N | 401269-12 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S5 | N | 401269-13 | 1/17/2024 | SO | D, E, F, G, H |
| MW-22D-S6 | N | 401269-14 | 1/18/2024 | SO | Hold |

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|---------------|
| MW-22D-S7 | N | 401269-15 | 1/19/2024 | SO | Hold |
| MW-22D-S8 | N | 401269-16 | 1/19/2024 | SO | D, E, F, G, H |
| MW-23D-S1 | N | 401269-17 | 1/19/2024 | SO | D, E, F, G, H |
| MW-23D-S2 | N | 401269-18 | 1/19/2024 | SO | D, E, F, G, H |
| MW-22D-GRAB | N | 401269-19 | 1/18/2024 | WG | D, F, G, I, J |
| HA-1-S1 | N | 401358-01 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S2 | N | 401358-02 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S3 | N | 401358-03 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S4 | N | 401358-04 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-S5 | N | 401358-05 | 1/26/2024 | SO | Hold |
| HA-1-S6 | N | 401358-06 | 1/26/2024 | SO | D, E, F, G, J |
| HA-1-DUP | FD | 401358-07 | 1/26/2024 | SO | D, E, F, G, J |
| HA-2-S1.5 | N | 401358-08 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S2 | N | 401358-09 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S3 | N | 401358-10 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S4 | N | 401358-11 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S5 | N | 401358-12 | 1/24/2024 | SO | D, E, F, G, J |
| HA-2-S6 | N | 401358-13 | 1/24/2024 | SO | Hold |
| HA-2-S7 | N | 401358-14 | 1/25/2024 | SO | D, E, F, G, J |
| HA-2-S8 | N | 401358-15 | 1/25/2024 | SO | D, E, F, G, J |
| HA-2-S9 | N | 401358-16 | 1/25/2024 | SO | D, G, G, I |
| HA-2-S10 | N | 401358-17 | 1/25/2024 | SO | D, G, G, I |
| HA-3-S1 | N | 401358-18 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S2 | N | 401358-19 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S3 | N | 401358-20 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S4 | N | 401358-21 | 1/23/2024 | SO | D, E, F, G, J |
| HA-3-S5 | N | 401358-22 | 1/23/2024 | SO | Hold |
| HA-3-S6 | N | 401358-23 | 1/23/2024 | SO | D, E, F, G, J |
| MW-23D-S3 | N | 401358-24 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-S4 | N | 401358-25 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-S5 | N | 401358-26 | 1/22/2024 | SO | D,F, G, I |
| MW-23D-S6 | N | 401358-27 | 1/22/2024 | SO | D, E, F, G, J |
| MW-23D-DUP | N | 401358-28 | 1/22/2024 | SO | D, E, F, G, J |
| HA-1-GW | N | 401358-29 | 1/26/2024 | WG | D,F, G, I |
| HA-2-GW | N | 401358-30 | 1/24/2024 | WG | D,F, G, I |
| HA-3-GW | N | 401358-31 | 1/23/2024 | WG | F, G, I, J |
| DUP-01 | FD | 401358-32 | 1/23/2024 | WG | F, G, I, J |
| HA-4-S1 | N | 402019-01 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S2 | N | 402019-02 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S3 | N | 402019-03 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S4 | N | 402019-04 | 1/29/2024 | SO | D, E, F, G, H |
| HA-4-S5 | N | 402019-05 | 1/29/2024 | SO | D, F, I |
| HA-4-S6 | N | 402019-06 | 1/29/2024 | SO | D, E, F, G, H |

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Client Sample ID | Sample Type | Lab Sample ID | Sample Date | Matrix | Methods |
|------------------|-------------|---------------|-------------|--------|------------------|
| MW-1S | N | 402067-01 | 2/5/2024 | WG | D, F, I |
| MW-3S | N | 402067-02 | 2/5/2024 | WG | D, F, I |
| MW-22D | N | 402067-03 | 2/5/2024 | WG | D, E, F, G, H, J |
| MW-23D | N | 402067-04 | 2/5/2024 | WG | D, E, F, G, H, J |
| MW-19D-W | N | 402092-01 | 2/6/2024 | WG | D, E, F, G, H, J |
| MW-20D-W | N | 402092-02 | 2/6/2024 | WG | D, E, F, G, H, J |
| MW-21D-W | N | 402092-03 | 2/6/2024 | WG | D, E, F, G, H, J |
| DUP-01 | FD | 402092-04 | 2/6/2024 | WG | D, E, F, G, H, J |
| Trip Blank | TB | 402092-05 | 2/6/2024 | WG | D |
| MW-10D-W | N | 402114-01 | 2/7/2024 | WG | F,G,I |
| MW-11D-W | N | 402114-02 | 2/7/2024 | WG | F,G,I |
| MW-21D-S2 | N | 2401419-001 | 1/16/2024 | SO | A |
| MW-21D-S4 | N | 2401419-002 | 1/16/2024 | SO | A |
| MW-21D-S7 | N | 2401419-003 | 1/16/2024 | SO | A |
| MW-23D-S2 | N | 2401419-004 | 1/19/2024 | SO | A |
| HA-1-S2 | N | 2401541-001A | 1/26/2024 | SO | A |
| HA-1-S4 | N | 2401541-002A | 1/26/2024 | SO | A |
| HA-1-S6 | N | 2401541-003A | 1/26/2024 | SO | A |
| HA-1-DUP | FD | 2401541-004A | 1/26/2024 | SO | A |
| HA-2-S3 | N | 2401541-005A | 1/24/2024 | SO | A |
| HA-2-S5 | N | 2401541-006A | 1/24/2024 | SO | A |
| HA-2-S7 | N | 2401541-007A | 1/25/2024 | SO | A |
| MW-23D-S4 | N | 2401541-008A | 1/22/2024 | SO | A |
| MW-23D-S6 | N | 2401541-009A | 1/22/2024 | SO | A |
| MW-23D-DUP | FD | 2401541-010A | 1/22/2024 | SO | A |

TABLE 2
METHOD HOLDING TIMES
HNA WHIDBEY MARINE

| Analytic Method | | Description | Holding Time |
|-----------------|-------------|---|--|
| A | SW9060 | Total Organic Carbon (TOC) | 28 days for liquid preserved |
| B | NWTPH-EPH | EXTRACTABLE PETROLEUM HYDROCARBON FRACTIONS | 14 days extraction / 40 days analysis for solid, unpreserved |
| C | NWTPH-VPH | VOLATILE PETROLEUM HYDROCARBON FRACTIONS | 14 days for solid, preserved |
| D | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid, unpreserved |
| E | SW8270E | Polycyclic Aromatic Hydrocarbons (PAHs) | 7 days extraction / 40 days analysis for liquid, unpreserved, 14 days extraction / 40 days analysis for solid, unpreserved |
| F | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid unpreserved |
| G | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid, preserved 7 days for liquid unpreserved, 14 days for solid unpreserved |
| H | SW6020B | Metals | 180 days for liquid, preserved , 180 days for solid unpreserved |
| I | SW8021B | Volatile Organic Compounds (VOCs) | 14 days for liquid, preserved ,14 days for solid unpreserved |
| J | SM2540D | Total Suspended Solids | 28 days for liquid unpreserved |
| K | E300 | Sulfate, Chloride | 28 days for liquid unpreserved |
| | E300 | Nitrate, Nitrite | 48 hours for liquid unpreserved |
| L | SM2320B | Alkalinity | 14 days for liquid unpreserved |
| M | RSK175 | Dissolved Gases | 14 days for liquid, preserved 7 days for liquid unpreserved |
| N | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid, preserved |
| O | SM5310C | Total Organic Carbon | 28 days for liquid, preserved |
| P | SM4500-S2-D | TOTAL SULFIDES | 7 days for liquid, preserved |

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-------------|------------------------|-----------|---|
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C10-C12) Aromatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C12-C13) Aromatic |
| 2401315-001 | 1/24/24 20:00 | NWTPH-VPH | Volatile Petroleum Hydrocarbons (C8-C10) Aromatic |
| 2402100-001 | 2/7/24 20:43 | E300 | Nitrate |
| 401180-02 | 1/15/24 15:43 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 401180-02 | 1/15/24 15:43 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(a)pyrene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(b)fluoranthene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(g,h,i)perylene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Benzo(k)fluoranthene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Dibenz(a,h)anthracene |
| 401180-02 | 1/16/24 22:32 | SW8270E | Indeno(1,2,3-cd)pyrene |
| 401269-08 | 1/23/24 15:48 | SW8260D | 1,2,4-Trimethylbenzene |
| 401269-08 | 1/23/24 15:48 | SW8260D | 1,3,5-Trimethylbenzene |
| 401269-08 | 1/24/24 19:44 | SW8270E | 2-Methylnaphthalene |
| 401269-08 | 1/24/24 19:44 | SW8270E | Naphthalene |
| 401358-07 | 1/31/24 13:15 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | Ethylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | m,p-Xylenes |
| 401358-07 | 1/31/24 13:15 | SW8260D | Naphthalene |
| 401358-07 | 1/31/24 13:15 | SW8260D | n-Propylbenzene |
| 401358-07 | 1/31/24 13:15 | SW8260D | o-Xylene |
| 401358-07 | 1/31/24 13:15 | SW8260D | Toluene |
| 401358-14 | 1/31/24 14:29 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Ethylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Isopropylbenzene (Cumene) |
| 401358-14 | 1/31/24 14:29 | SW8260D | m,p-Xylenes |
| 401358-14 | 1/31/24 14:29 | SW8260D | Naphthalene |
| 401358-14 | 1/31/24 14:29 | SW8260D | n-Propylbenzene |
| 401358-14 | 1/31/24 14:29 | SW8260D | o-Xylene |
| 401358-14 | 1/31/24 14:29 | SW8260D | Toluene |
| 401358-14 | 1/30/24 18:10 | SW8270E | 1-Methylnaphthalene |
| 401358-14 | 1/30/24 18:10 | SW8270E | 2-Methylnaphthalene |
| 401358-14 | 1/30/24 18:10 | SW8270E | Naphthalene |
| 401358-23 | 1/31/24 14:53 | SW8260D | 1,2,4-Trimethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | 1,3,5-Trimethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Ethylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Hexane |
| 401358-23 | 1/31/24 14:53 | SW8260D | Isopropylbenzene (Cumene) |
| 401358-23 | 1/31/24 14:53 | SW8260D | m,p-Xylenes |

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-----------|------------------------|---------|---|
| 401358-23 | 1/31/24 14:53 | SW8260D | Naphthalene |
| 401358-23 | 1/31/24 14:53 | SW8260D | n-Propylbenzene |
| 401358-23 | 1/31/24 14:53 | SW8260D | o-Xylene |
| 401358-23 | 1/31/24 14:53 | SW8260D | Toluene |
| 401358-23 | 1/30/24 20:54 | SW8270E | 2-Methylnaphthalene |
| 402067-04 | 2/8/24 19:52 | SW8270E | Naphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,1,2-Tetrachloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,1-Trichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,2,2-Tetrachloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1,2-Trichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,1-Dichloropropene |
| 402067-04 | 2/19/24 19:30 | SW8260D | 1,2,3-Trichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,3-Trichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,4-Trichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2,4-Trimethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dibromo-3-chloropropane (DBCP) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dibromoethane (Ethylene Dibromide) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichloroethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,2-Dichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3,5-Trimethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,3-Dichloropropane |
| 402067-04 | 2/7/24 0:00 | SW8260D | 1,4-Dichlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2,2-Dichloropropane |
| 402067-04 | 2/19/24 19:30 | SW8260D | 2-Butanone (Methyl Ethyl Ketone) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Chlorotoluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Hexanone (Methyl Butyl Ketone) |
| 402067-04 | 2/8/24 19:52 | SW8270E | 2-Methylnaphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 2-Phenylbutane (sec-Butylbenzene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | 4-Chlorotoluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Acetone |
| 402067-04 | 2/7/24 0:00 | SW8260D | Benzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromodichloromethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromoform |
| 402067-04 | 2/7/24 0:00 | SW8260D | Bromomethane (Methyl Bromide) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Carbon tetrachloride |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chlorobenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloroethane |

TABLE 3
REANALYSIS SUMMARY
HNA WHIDBEY MARINE

| Lab ID | Rejected Analysis Date | Method | Analyte |
|-----------|------------------------|----------|--|
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloroform (Trichloromethane) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Chloromethane (Methyl Chloride) |
| 402067-04 | 2/7/24 0:00 | SW8260D | cis-1,2-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | cis-1,3-Dichloropropene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Cymene (p-Isopropyltoluene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dibromochloromethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dibromomethane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Dichlorodifluoromethane (CFC-12) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Ethylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Hexachlorobutadiene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Hexane |
| 402067-04 | 2/7/24 0:00 | SW8260D | Isopropylbenzene (Cumene) |
| 402067-04 | 2/7/24 0:00 | SW8260D | m,p-Xylenes |
| 402067-04 | 2/7/24 0:00 | SW8260D | Methyl Tert Butyl Ether (MTBE) |
| 402067-04 | 2/19/24 19:30 | SW8260D | Methylene chloride (Dichloromethane) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Naphthalene |
| 402067-04 | 2/7/24 0:00 | SW8260D | n-Propylbenzene |
| 402067-04 | 2/7/24 0:00 | SW8260D | o-Xylene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Styrene |
| 402067-04 | 2/7/24 0:00 | SW8260D | tert-Butylbenzene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Tetrachloroethene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Toluene |
| 402067-04 | 2/7/24 0:00 | SW8260D | trans-1,2-Dichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | trans-1,3-Dichloropropene |
| 402067-04 | 2/19/24 19:30 | SW8260D | Trichloroethene |
| 402067-04 | 2/7/24 0:00 | SW8260D | Trichlorofluoromethane (CFC-11) |
| 402067-04 | 2/7/24 0:00 | SW8260D | Vinyl chloride |
| 402092-01 | 2/8/24 19:14 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-01 | 2/8/24 19:14 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-02 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-02 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-03 | 2/9/24 10:37 | SW8270E | Naphthalene |
| 402092-03 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-03 | 2/8/24 19:38 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402092-04 | 2/9/24 12:16 | SW8270E | Naphthalene |
| 402092-04 | 2/8/24 0:00 | NWTPH-DX | Total Petroleum Hydrocarbons (C10-C25) DRO |
| 402092-04 | 2/8/24 0:00 | NWTPH-DX | Total Petroleum Hydrocarbons (C25-C36) ORO |
| 402114-01 | 2/9/24 11:38 | NWTPH-DX | Diesel Range Hydrocarbons (DRH) |
| 402114-01 | 2/9/24 11:38 | NWTPH-DX | Residual Range Hydrocarbons |
| 402114-02 | 2/9/24 11:38 | NWTPH-DX | Diesel Range Hydrocarbons (DRH) |
| 402114-02 | 2/9/24 11:38 | NWTPH-DX | Residual Range Hydrocarbons |

TABLE 4
MATRIX SPIKE/MATRIX SPIKE DUPLICATES
HNA WHIDBEY MARINE

| Sample Type | Method | Batch ID | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|-----------|-------------|---------------------------------|------------|-----------|---|
| MS | NWTPH-EPH | 2401469-001 | Aromatic Hydrocarbon (C10-C12) | 132% /135% | NA | None, confirmation matrix spike within limits |
| MS/MSD | SW8260D | 401358-24 | Benzene | 132%/130% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Toluene | 135%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,3-Dichloropropane | 142%/148% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Tetrachloroethene | 1.35 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2-Dibromoethane (EDB) | 1.43 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Chlorobenzene | 135%/140% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Ethylbenzene | 139%/142% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | m,p-Xylene | 138%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | o-Xylene | 135%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Styrene | 140%/143% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Bromobenzene | 146%/143% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,1,2,2-Tetrachloroethane | 149%/146% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2,3-Trichloropropane | 157%/153% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 2-Chlorotoluene | 143%/140% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 4-Chlorotoluene | 145%/142% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | tert-Butylbenzene | 141%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | sec-Butylbenzene | 1.48 | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,3-Dichlorobenzene | 134%/134% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,4-Dichlorobenzene | 141%/138% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | 1,2-Dichlorobenzene | 139%/139% | J/None | None, sample ND |
| MS/MSD | SW8260D | 401358-24 | Hexachlorobutadiene | 151%/147% | J/None | None, sample ND |
| MS | NWTPH-VPH | 2402008-005 | Aliphatic Hydrocarbon (C10-C12) | 63% | NA | None, native sample > 4x the spike added |
| MS | NWTPH-VPH | 2402008-005 | Aromatic Hydrocarbon (C10-C12) | 15.60% | NA | None, native sample > 4x the spike added |
| MS | NWTPH-VPH | 2402008-005 | Aromatic Hydrocarbon (C12-C13) | 68.80% | NA | None, native sample > 4x the spike added |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|-----------|-------------------|-------------|---|-----------------|------------------|----------------------|
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic | 2.13 Q+ | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C10-C12) Aromatic | 1.29 Q- | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C12-C13) Aromatic | 1.22 Q- | R | VCM |
| 401180 | NWTPH-VPH | MW-19D-S2 | 2401315-001 | Volatile Petroleum Hydrocarbons (C8-C10) Aromatic | 0.831 Q -J | R | VCM |
| 402092 | E300 | MW-19D-W-20240206 | 2402100-001 | Nitrate (as N) | 34.7 E | R | EXE |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(a)pyrene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(b)fluoranthene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(g,h,i)perylene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Benzo(k)fluoranthene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Dibenz(a,h)anthracene | ND UJ | R | VCM |
| 401180 | SW8270E | MW-19D-S2 | 401180-02 | Indeno(1,2,3-cd)pyrene | ND UJ | R | VCM |
| 401180 | NWTPH-DX | MW-19D-S2 | 401180-02 | Total Petroleum Hydrocarbons (C10-C25) DRO | 370 | R | VCM |
| 401180 | NWTPH-DX | MW-19D-S2 | 401180-02 | Total Petroleum Hydrocarbons (C25-C36) ORO | 1700 | R | VCM |
| 401269 | SW8260D | MW-21D-S7 | 401269-08 | 1,2,4-Trimethylbenzene | 19 E | R | EXE |
| 401269 | SW8260D | MW-21D-S7 | 401269-08 | 1,3,5-Trimethylbenzene | 8.5 E | R | EXE |
| 401269 | SW8270E | MW-21D-S7 | 401269-08 | 2-Methylnaphthalene | 16 E | R | EXE |
| 401269 | SW8270E | MW-21D-S7 | 401269-08 | Naphthalene | 6.5 E | R | EXE |
| 401269 | SW8260D | MW-22D-S1 | 401269-09 | 1,2-Dibromo-3-chloropropane (DBCP) | 0.5 EJ | R | EXE |
| 401269 | SW8260D | MW-22D-S1 | 401269-09 | Acetone | 5 EJ | R | EXE |
| 401269 | SW8260D | MW-23D-S1 | 401269-17 | 1,2-Dibromo-3-chloropropane (DBCP) | 0.5 EJ | R | EXE |
| 401269 | SW8260D | MW-23D-S1 | 401269-17 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S1 | 401358-01 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S2 | 401358-02 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S3 | 401358-03 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-S4 | 401358-04 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | 1,2,4-Trimethylbenzene | 120 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | 1,3,5-Trimethylbenzene | 66 E | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Ethylbenzene | 69 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | m,p-Xylenes | 240 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Naphthalene | 43 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | n-Propylbenzene | 34 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | o-Xylene | 120 E | R | EXE |
| 401358 | SW8260D | HA-1-DUP | 401358-07 | Toluene | 120 E | R | EXE |
| 401358 | SW8260D | HA-2-S1.5 | 401358-08 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S2 | 401358-09 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S3 | 401358-10 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S4 | 401358-11 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S5 | 401358-12 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | 1,2,4-Trimethylbenzene | 180E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | 1,3,5-Trimethylbenzene | 110E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | 1-Methylnaphthalene | 13E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | 2-Methylnaphthalene | 27E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Ethylbenzene | 120E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Hexane | 49E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Isopropylbenzene (Cumene) | 18E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | m,p-Xylenes | 400E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Naphthalene | 75E | R | EXE |
| 401358 | SW8270E | HA-2-S7 | 401358-14 | Naphthalene | 24E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | n-Propylbenzene | 73E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | o-Xylene | 250E | R | EXE |
| 401358 | SW8260D | HA-2-S7 | 401358-14 | Toluene | 250E | R | EXE |
| 401358 | SW8260D | HA-2-S8 | 401358-15 | Trichlorofluoromethane (CFC-11) | 0.5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S1 | 401358-18 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S2 | 401358-19 | Acetone | 5 EJ | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 401358 | SW8260D | HA-3-S3 | 401358-20 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S4 | 401358-21 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | 1,2,4-Trimethylbenzene | 200E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | 1,3,5-Trimethylbenzene | 120E | R | EXE |
| 401358 | SW8270E | HA-3-S6 | 401358-23 | 2-Methylnaphthalene | 11E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Ethylbenzene | 150E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Hexane | 260E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Isopropylbenzene (Cumene) | 25E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | m,p-Xylenes | 430E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Naphthalene | 76E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | n-Propylbenzene | 93E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | o-Xylene | 240E | R | EXE |
| 401358 | SW8260D | HA-3-S6 | 401358-23 | Toluene | 130 E | R | EXE |
| 401358 | SW8260D | MW-23D-S3 | 401358-24 | Acetone | 5 EJ | R | EXE |
| 401358 | SW8260D | MW-23D-S4 | 401358-25 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S1 | 402019-01 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S2 | 402019-02 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S3 | 402019-03 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S4 | 402019-04 | Acetone | 5 EJ | R | EXE |
| 402019 | SW8260D | HA-4-S6 | 402019-06 | Acetone | 5 EJ | R | EXE |
| 402067 | SW8260D | MW-22D-20240205 | 402067-03 | Acetone | 50 EJ | R | EXE |
| 402067 | SW8260D | MW-22D-20240205 | 402067-03 | Trichlorofluoromethane (CFC-11) | 1 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,1,2-Tetrachloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,1-Trichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,2,2-Tetrachloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1,2-Trichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloroethane | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|---|-----------------|------------------|----------------------|
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,1-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,3-Trichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,4-Trichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,4-Trimethylbenzene | 580 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dibromoethane (Ethylene Dibromide) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3,5-Trimethylbenzene | 220 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,3-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,4-Dichlorobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2,2-Dichloropropane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Chlorotoluene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Hexanone (Methyl Butyl Ketone) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Phenylbutane (sec-Butylbenzene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 4-Chlorotoluene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Benzene | 11 T | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromobenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromodichloromethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromoform | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Bromomethane (Methyl Bromide) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Carbon tetrachloride | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chlorobenzene | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-----------------|-----------|--------------------------------------|-----------------|------------------|----------------------|
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloroethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloroform (Trichloromethane) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | cis-1,2-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | cis-1,3-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Cymene (p-Isopropyltoluene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dibromochloromethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dibromomethane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Dichlorodifluoromethane (CFC-12) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Ethylbenzene | 1300 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Hexachlorobutadiene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Hexane | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Isopropylbenzene (Cumene) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | m,p-Xylenes | 4400 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Methyl Tert Butyl Ether (MTBE) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Methylene chloride (Dichloromethane) | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Naphthalene | 380 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | n-Propylbenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | o-Xylene | 1000 | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Styrene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | tert-Butylbenzene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Tetrachloroethene | ND UJ | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | trans-1,2-Dichloroethene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | trans-1,3-Dichloropropene | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Trichloroethene | ND UJ | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Vinyl chloride | ND | R | VCM |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 1,2,3-Trichlorobenzene | 50 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | 2-Butanone (Methyl Ethyl Ketone) | 1000 EJ | R | EXE |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|----------|-------------------|-----------|--|-----------------|------------------|----------------------|
| 402067 | SW8270E | MW-23D-20240205 | 402067-04 | 2-Methylnaphthalene | 72 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Acetone | 10000 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Acetone | 2500 EJ | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Chloromethane (Methyl Chloride) | 500 EJ | R | EXE |
| 402067 | SW8270E | MW-23D-20240205 | 402067-04 | Naphthalene | 160 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Toluene | 14000 E | R | EXE |
| 402067 | SW8260D | MW-23D-20240205 | 402067-04 | Trichlorofluoromethane (CFC-11) | 200 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-19D-W-20240206 | 402092-01 | Total Petroleum Hydrocarbons (C10-C25) DRO | ND | R | VCM |
| 402092 | NWTPH-DX | MW-19D-W-20240206 | 402092-01 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-19D-W-20240206 | 402092-01 | 2-Butanone (Methyl Ethyl Ketone) | 20 EJ | R | EXE |
| 402092 | SW8260D | MW-19D-W-20240206 | 402092-01 | Acetone | 50 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-20D-W-20240206 | 402092-02 | Total Petroleum Hydrocarbons (C10-C25) DRO | 110 | R | VCM |
| 402092 | NWTPH-DX | MW-20D-W-20240206 | 402092-02 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-20D-W-20240206 | 402092-02 | 2-Butanone (Methyl Ethyl Ketone) | 20 EJ | R | EXE |
| 402092 | SW8260D | MW-20D-W-20240206 | 402092-02 | Acetone | 50 EJ | R | EXE |
| 402092 | NWTPH-DX | MW-21D-W-20240206 | 402092-03 | Total Petroleum Hydrocarbons (C10-C25) DRO | 1600 | R | VCM |
| 402092 | NWTPH-DX | MW-21D-W-20240206 | 402092-03 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | MW-21D-W-20240206 | 402092-03 | 2-Butanone (Methyl Ethyl Ketone) | 200 EJ | R | EXE |
| 402092 | SW8260D | MW-21D-W-20240206 | 402092-03 | Acetone | 500 EJ | R | EXE |
| 402092 | SW8270E | MW-21D-W-20240206 | 402092-03 | Naphthalene | 37 E | R | EXE |
| 402092 | NWTPH-DX | DUP-01-20240206 | 402092-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | 1600 | R | VCM |
| 402092 | NWTPH-DX | DUP-01-20240206 | 402092-04 | Total Petroleum Hydrocarbons (C25-C36) ORO | ND | R | VCM |
| 402092 | SW8260D | DUP-01-20240206 | 402092-04 | 2-Butanone (Methyl Ethyl Ketone) | 200 EJ | R | EXE |
| 402092 | SW8260D | DUP-01-20240206 | 402092-04 | Acetone | 500 EJ | R | EXE |
| 402092 | SW8270E | DUP-01-20240206 | 402092-04 | Naphthalene | 39 E | R | EXE |
| 402114 | NWTPH-DX | MW-10D-W-20240207 | 402114-01 | Diesel Range Hydrocarbons (DRH) | ND | R | VCM |
| 402114 | NWTPH-DX | MW-10D-W-20240207 | 402114-01 | Residual Range Hydrocarbons | ND | R | VCM |

TABLE 5
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Sample ID | Lab ID | Analyte | Reported Result | Validated Result | Reason for Qualifier |
|--------|----------|-------------------|-----------|---------------------------------|-----------------|------------------|----------------------|
| 402114 | NWTPH-DX | MW-11D-W-20240207 | 402114-02 | Diesel Range Hydrocarbons (DRH) | 71 | R | VCM |
| 402114 | NWTPH-DX | MW-11D-W-20240207 | 402114-02 | Residual Range Hydrocarbons | ND | R | VCM |

- Notes:**
- VCM Validator's choice of method.
 - FDP Field duplicate relative percent difference exceeds limits or exceeds the absolute difference rule (used when results are less than 5x the RL).
 - EXE Result exceeds the calibration range.
 - DUP Laboratory duplicate relative percent difference exceeds limits.
 - SUR Surrogate percent recovery outside acceptance limits.
 - HTQ Holding Time exceeded.
 - LCS Laboratory Control/Laboratory Control Spike Duplicate percent recoveries or relative percent difference were outside acceptance limits.



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info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401419

January 30, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 1/23/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401419

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401419-001 | MW-21D-S2 | 01/16/2024 10:50 AM | 01/23/2024 1:30 PM |
| 2401419-002 | MW-21D-S4 | 01/16/2024 10:30 AM | 01/23/2024 1:30 PM |
| 2401419-003 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/23/2024 1:30 PM |
| 2401419-004 | MW-23D-S2 | 01/19/2024 3:05 PM | 01/23/2024 1:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

2/12/24- Revised report includes an updated Sample ID for 2401419-004 per the COC.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401419-001 **Collection Date:** 1/16/2024 10:50:00 AM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 1:05:00 PM |

Lab ID: 2401419-002 **Collection Date:** 1/16/2024 10:30:00 AM
Client Sample ID: MW-21D-S4 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 2:32:00 PM |

Lab ID: 2401419-003 **Collection Date:** 1/16/2024 2:30:00 PM
Client Sample ID: MW-21D-S7 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:15:00 PM |

Lab ID: 2401419-004 **Collection Date:** 1/19/2024 3:05:00 PM
Client Sample ID: MW-23D-S2 **Matrix:** Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:32:00 PM |

Work Order: 2401419
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42741 | SampType: MBLK | Units: %-dry | | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MBLKS | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864259 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.150 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42741 | SampType: LCS | Units: %-dry | | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: LCSS | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864260 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.07 | 0.150 | 1.000 | 0 | 107 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401419-001ADUP | SampType: DUP | Units: %-dry | | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864262 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401419-001AMS | SampType: MS | Units: %-dry | | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864263 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401419-001AMSD | SampType: MSD | Units: %-dry | | | | Prep Date: 1/29/2024 | | | RunNo: 89268 | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | | | Analysis Date: 1/29/2024 | | | SeqNo: 1864264 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.04 | 0.150 | 1.000 | 0 | 104 | 75 | 125 | 1.106 | 6.63 | 20 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401419
 Date Received: 1/23/2024 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of

Phone # (206) 285-8282

ANALYSES REQUESTED[illegible]

TIME

Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 8, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on January 15, 2024 from the Whidbey Marine 024475-001, F&BI 401180 project. The sample IDs have been amended.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0207R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 7, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the additional results from the testing of material submitted on January 15, 2024 from the Whidbey Marine 024475-001, F&BI 401180 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0207R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 15, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 024475-001, F&BI 401180 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401180 -01 | MW-19D-S1 |
| 401180 -02 | MW-19D-S2 |
| 401180 -03 | MW-19D-S3 |
| 401180 -04 | MW-19D-S4 |
| 401180 -05 | MW-19D-S5 |
| 401180 -06 | MW-19D-S6 |
| 401180 -07 | HA-2-51 |
| 401180 -08 | MW-20D-S1 |
| 401180 -09 | MW-20D-S2 |
| 401180 -10 | MW-20D-S3 |
| 401180 -11 | MW-20D-S4 |
| 401180 -12 | MW-20D-S5 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|---------------------------|
| Client Sample ID: | MW-20D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 024475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-12 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011717.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|---------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 024475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 04-0105 mb 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011706.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 71 | 132 |
| Toluene-d8 | 98 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/24

Date Received: 01/15/24

Project: Whidbey Marine 024475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401180-04 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 82 | 83 | 10-138 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 80 | 10-176 | 2 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 88 | 86 | 10-160 | 2 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 78 | 74 | 10-156 | 5 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 88 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 19-140 | 0 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 25-135 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 96 | 95 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 10-156 | 0 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 90 | 90 | 21-139 | 0 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 95 | 97 | 20-133 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------------------|--------------------|----------------|----------------------------|------------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2 | 89 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 96 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 94 | 64-135 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 94 | 64-135 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2 | 96 | 63-139 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

01/15/24 N2

Page # 1 of 2

2

401180

Report To H. Good, V. Pehlivan

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) _____

PROJECT NAME

PO #

REMARKS

Whiskey Mine

0204475-001

INVOICE TO

Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

X-EPH and VPH on

MW-19D-S2 per HG

01/16/24 ME

Notes

A-per HG

01/22/24 ME

Inductochromographs

W/TPH analyses

Hold EPH/VPH

pending TPH

results

D-Hold

| ANALYSES REQUESTED | | | | | | | | | | | | | | |
|--------------------|--------|--------------|--------------|-------------|-----------|----------|----------|---------------|------------|---------------|---------------|----------------------------------|-------|--------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Dx with Silica Gel PCBs EPA 8082 | Ph+As | EDB,EDL,MTBE |
| | | | | | | | | | | | | | | |
| MW-19D-S1 | 01A-F | 1/10/24 | 0940 | Soil | 6 | X | X | | | X | X | | X | X |
| MW-19D-S2 | 02 | | 1000 | | | X | X | | | X | X | A | X | X |
| MW-19D-S3 | 03 | | 1110 | | | X | X | | | X | X | | X | X |
| MW-19D-S4 | 04 | | 1120 | | | X | X | | | X | X | | X | X |
| MW-19D-S5 | 05 | | 1335 | | | X | X | | | X | X | | X | X |
| MW-19D-S6 | 06 | | 1630 | | | X | X | | | X | X | | X | X |
| HA-2-S1 | 07 | 1/9/24 | 1300 | | | | | | | | | | | |
| MW-20D-S1 | 08 | 1/11/24 | 1430 | | | X | X | | | X | X | | X | X |
| MW-20D-S2 | 09 | | 1450 | | | X | X | | | X | X | | X | X |
| MW-20D-S3 | 10 | 1/12/24 | 1155 | | | X | X | | | X | X | | X | X |
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SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Relinquished by: _____

Received by: _____

Andrew Nakamura

HA

ANHP HAN

FB

Samples received at

1 °C

1/15/24 11:20

1/15/24 11:20

1/15/24 11:20

1/15/24 11:20

1/15/24 11:20

1/15/24 11:20

Friedman & Bruya, Inc.
Ph. (206) 285-8282

2 of 2

Phone _____ Email _____

TURNAROUND TIME
☒ Standard turnaround
☐ RUSH _____
 Rush charges authorized by: _____



SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____

Default: Dispose after 30 days

ANALYSES REQUESTED

[illegible]

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------------------|---------|-------|
| Relinquished by:  | Andrew Nakamura | HTA | 4/15/24 | 11:20 |
| Received by:  | ANDREW NAKAMURA | FSB | 6/15/24 | 11:20 |
| Relinquished by: | | Samples received at | 1 °C | |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 9, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on January 15, 2024 from the Whidbey Marine 0204475-001, F&BI 401180 project. Per your request, the NWTPH-Dx analysis of sample MW-19D-S2 was also reported as a single diesel extended result.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0202R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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February 2, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 15, 2024 from the Whidbey Marine 0204475-001, F&BI 401180 project. There are 49 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0202R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 15, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 401180 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401180 -01 | MW-19D-S1 |
| 401180 -02 | MW-19D-S2 |
| 401180 -03 | MW-19D-S3 |
| 401180 -04 | MW-19D-S4 |
| 401180 -05 | MW-19D-S5 |
| 401180 -06 | MW-19D-S6 |
| 401180 -07 | HA-2-S1 |
| 401180 -08 | MW-20D-S1 |
| 401180 -09 | MW-20D-S2 |
| 401180 -10 | MW-20D-S3 |
| 401180 -11 | MW-20D-S4 |
| 401180 -12 | MW-20D-S5 |

Sample MW-19D-S2 was sent to Fremont Analytical for EPH and VPH analyses. The report is enclosed.

Acetone in the 8260D laboratory control sample did not meet the acceptance criteria. The data were flagged accordingly.

An 8270E internal standard failed the acceptance criteria for sample MW-19D-S2. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: NA

Date Analyzed: 01/15/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-19D-S1 401180-01 | 9 |
| MW-19D-S2 401180-02 | 8 |
| MW-19D-S3 401180-03 | 3 |
| MW-19D-S4 401180-04 | 5 |
| MW-19D-S5 401180-05 | 19 |
| MW-19D-S6 401180-06 | 17 |
| MW-20D-S1 401180-08 | 5 |
| MW-20D-S2 401180-09 | 7 |
| MW-20D-S3 401180-10 | 6 |
| MW-20D-S4 401180-11 | 3 |
| MW-20D-S5 401180-12 | 22 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/16/24

Date Analyzed: 01/16/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-19D-S1 401180-01 | <5 | 112 |
| MW-19D-S2 401180-02 | 10 | 99 |
| MW-19D-S3 401180-03 | <5 | 110 |
| MW-19D-S4 401180-04 | <5 | 113 |
| MW-19D-S5 401180-05 | <5 | 111 |
| MW-19D-S6 401180-06 | <5 | 113 |
| MW-20D-S1 401180-08 | <5 | 113 |
| MW-20D-S2 401180-09 | <5 | 112 |
| MW-20D-S3 401180-10 | <5 | 112 |
| MW-20D-S4 401180-11 | <5 | 114 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/16/24

Date Analyzed: 01/16/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) |
|----------------------------|-----------------------|---------------------------|
| Laboratory ID | | (Limit 50-150) |
| MW-20D-S5 401180-12 | <5 | 114 |
| Method Blank 04-0019 MB | <5 | 107 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/15/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-19D-S1 401180-01 | <50 | <250 | 104 |
| MW-19D-S2 401180-02 | 370 | 1,700 | 107 |
| MW-19D-S3 401180-03 | <50 | <250 | 107 |
| MW-19D-S4 401180-04 | <50 | <250 | 103 |
| MW-19D-S5 401180-05 | <50 | <250 | 104 |
| MW-19D-S6 401180-06 | <50 | <250 | 102 |
| MW-20D-S1 401180-08 | <50 | <250 | 103 |
| MW-20D-S2 401180-09 | <50 | <250 | 102 |
| MW-20D-S3 401180-10 | <50 | <250 | 102 |
| MW-20D-S4 401180-11 | <50 | <250 | 104 |
| MW-20D-S5 401180-12 | <50 | <250 | 101 |
| Method Blank 04-145 MB | <50 | <250 | 104 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/15/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING METHOD NWTPH-Dx**

Extended to Include Motor Oil Range Compounds

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Extended</u> | Surrogate |
|------------------|-------------------------------------|----------------|
| Laboratory ID | (C ₁₀ -C ₃₆) | (% Recovery) |
| | | (Limit 50-150) |
| MW-19D-S2 | 1,500 | 107 |
| 401180-02 | | |
| Method Blank | <50 | 104 |
| 04-145 MB | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-19D-S2 | 240 | 1,100 | 93 |
| 401180-02 | | | |
| Method Blank | <50 | <250 | 96 |
| 04-145 MB | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

Date Extracted: 01/15/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING METHOD NWTPH-Dx**

Extended to Include Motor Oil Range Compounds

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Extended</u> | Surrogate |
|------------------|-------------------------------------|----------------|
| Laboratory ID | (C ₁₀ -C ₃₆) | (% Recovery) |
| | | (Limit 50-150) |
| MW-19D-S2 | 1,300 | 107 |
| 401180-02 | | |
| Method Blank | <50 | 104 |
| 04-145 MB | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-01 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-01.228 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.06 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-02 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-02.229 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.19 |
| Lead | 2.93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-03 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-03.241 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.79 |
| Lead | 1.41 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-04 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-04.242 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.56 |
| Lead | 1.23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-06 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-06.243 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 3.40 |
| Lead | 2.32 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-08 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-08.247 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.33 |
| Lead | 1.17 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-09 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-09.248 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.35 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-10 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-10.249 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.93 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | 401180-11 |
| Date Analyzed: | 01/16/24 | Data File: | 401180-11.250 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.73 |
| Lead | 1.43 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/15/24 | Lab ID: | I4-34 mb |
| Date Analyzed: | 01/15/24 | Data File: | I4-34 mb.145 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-01 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011707.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-19D-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/15/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/17/24 | Lab ID: 401180-02 1/0.5 |
| Date Analyzed: 01/17/24 | Data File: 011708.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 84 | 120 |
| Toluene-d8 | 105 | 73 | 128 |
| 4-Bromofluorobenzene | 95 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0047 |
| Hexane | <0.25 | o-Xylene | 0.0045 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.082 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0020 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.026 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

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|-------------------------------|-------------------------------------|
| Client Sample ID: MW-19D-S3 | Client: Haley & Aldrich, Inc |
| Date Received: 01/15/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/17/24 | Lab ID: 401180-03 1/0.5 |
| Date Analyzed: 01/17/24 | Data File: 011709.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

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|-------------------------------|-------------------------------------|
| Client Sample ID: MW-19D-S4 | Client: Haley & Aldrich, Inc |
| Date Received: 01/15/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/17/24 | Lab ID: 401180-04 1/0.5 |
| Date Analyzed: 01/17/24 | Data File: 011710.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-05 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011711.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 84 | 120 |
| Toluene-d8 | 106 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Benzene | <0.001 |
| Toluene | <0.001 |
| Ethylbenzene | <0.001 |
| m,p-Xylene | <0.002 |
| o-Xylene | <0.001 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-06 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011712.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 90 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 µl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-08 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011713.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.013 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-09 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011714.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.013 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

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|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-10 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011715.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 94 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0092 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 j1 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

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|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-11 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011716.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 98 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0046 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 401180-12 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011717.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 103 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Benzene | <0.001 |
| Toluene | <0.001 |
| Ethylbenzene | <0.001 |
| m,p-Xylene | <0.002 |
| o-Xylene | <0.001 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/17/24 | Lab ID: | 04-0105 mb 1/0.5 |
| Date Analyzed: | 01/17/24 | Data File: | 011706.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 71 | 132 |
| Toluene-d8 | 98 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 jl | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-01 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011613.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 16 | 137 |
| 2-Fluorobiphenyl | 75 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 76 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-02 1/25 |
| Date Analyzed: | 01/16/24 | Data File: | 011624.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 d | 16 | 137 |
| 2-Fluorobiphenyl | 85 d | 46 | 122 |
| 2,4,6-Tribromophenol | 94 d | 17 | 154 |
| Terphenyl-d14 | 98 d | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.05 |
| 2-Methylnaphthalene | 0.10 |
| 1-Methylnaphthalene | 0.060 |
| Acenaphthylene | <0.05 |
| Acenaphthene | <0.05 |
| Fluorene | <0.05 |
| Phenanthrene | <0.05 |
| Anthracene | <0.05 |
| Fluoranthene | <0.05 |
| Pyrene | <0.05 |
| Benz(a)anthracene | <0.05 |
| Chrysene | 0.051 |
| Benzo(a)pyrene | <0.05 J |
| Benzo(b)fluoranthene | <0.05 J |
| Benzo(k)fluoranthene | <0.05 J |
| Indeno(1,2,3-cd)pyrene | <0.05 J |
| Dibenz(a,h)anthracene | <0.05 J |
| Benzo(g,h,i)perylene | <0.05 J |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-02 1/250 |
| Date Analyzed: | 01/17/24 | Data File: | 011720.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 d | 16 | 137 |
| 2-Fluorobiphenyl | 90 d | 46 | 122 |
| 2,4,6-Tribromophenol | 200 d | 17 | 154 |
| Terphenyl-d14 | 85 d | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Benzo(a)pyrene | <0.5 |
| Benzo(b)fluoranthene | <0.5 |
| Benzo(k)fluoranthene | <0.5 |
| Indeno(1,2,3-cd)pyrene | <0.5 |
| Dibenz(a,h)anthracene | <0.5 |
| Benzo(g,h,i)perylene | <0.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-03 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011614.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-04 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011615.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 74 | 17 | 154 |
| Terphenyl-d14 | 79 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-19D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-06 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011616.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 16 | 137 |
| 2-Fluorobiphenyl | 86 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-08 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011617.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 82 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-09 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011618.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 16 | 137 |
| 2-Fluorobiphenyl | 75 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 75 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-10 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011619.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 16 | 137 |
| 2-Fluorobiphenyl | 78 | 46 | 122 |
| 2,4,6-Tribromophenol | 73 | 17 | 154 |
| Terphenyl-d14 | 81 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/15/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 401180-11 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011620.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 16 | 137 |
| 2-Fluorobiphenyl | 70 | 46 | 122 |
| 2,4,6-Tribromophenol | 67 | 17 | 154 |
| Terphenyl-d14 | 77 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/16/24 | Lab ID: | 04-0147 mb 1/5 |
| Date Analyzed: | 01/16/24 | Data File: | 011612.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 16 | 137 |
| 2-Fluorobiphenyl | 95 | 46 | 122 |
| 2,4,6-Tribromophenol | 80 | 17 | 154 |
| Terphenyl-d14 | 90 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 401180-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|----------|--------------------|------------------------------|---------------------------------|-------------------|
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | mg/kg (ppm) | 40 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401171-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 106 | 106 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401171-01 (Matrix Spike) Silica Gel

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 130 | 115 | 119 | 63-146 | 3 |

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 118 | 77-123 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401170-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 112 | 116 | 75-125 | 4 |
| Lead | mg/kg (ppm) | 50 | <5 | 101 | 105 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 98 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401180-04 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 57 | 56 | 10-142 | 2 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 82 | 81 | 10-126 | 1 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 82 | 83 | 10-138 | 1 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 82 | 83 | 10-163 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 80 | 10-176 | 2 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 82 | 81 | 10-176 | 1 |
| Acetone | mg/kg (ppm) | 10 | <5 | 47 | 50 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 88 | 86 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 91 | 90 | 10-137 | 1 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 78 | 74 | 10-156 | 5 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 90 | 92 | 21-145 | 2 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 88 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 94 | 97 | 10-158 | 3 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 21-145 | 1 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 74 | 75 | 19-147 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 96 | 95 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 91 | 91 | 10-156 | 0 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 90 | 91 | 17-140 | 1 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 90 | 90 | 9-164 | 0 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 90 | 89 | 29-129 | 1 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 90 | 90 | 21-139 | 0 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 92 | 90 | 30-135 | 2 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 95 | 95 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 87 | 91 | 23-145 | 4 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 96 | 92 | 24-155 | 4 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 96 | 96 | 28-144 | 0 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 94 | 96 | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 99 | 98 | 26-149 | 1 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 10-205 | 0 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 104 | 105 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 97 | 99 | 31-137 | 2 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 95 | 97 | 20-133 | 2 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 99 | 98 | 28-150 | 1 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 98 | 101 | 28-142 | 3 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 97 | 97 | 32-129 | 0 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 98 | 97 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 95 | 98 | 31-143 | 3 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 96 | 97 | 34-136 | 1 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 98 | 98 | 33-134 | 0 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 98 | 98 | 35-137 | 0 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 96 | 99 | 31-142 | 3 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 97 | 100 | 21-156 | 3 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 104 | 23-146 | 1 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 107 | 104 | 34-130 | 3 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 104 | 18-149 | 2 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 107 | 105 | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 108 | 25-144 | 1 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 102 | 102 | 31-136 | 0 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 30-137 | 2 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 106 | 23-145 | 1 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 21-149 | 0 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 30-131 | 2 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 29-129 | 0 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 31-132 | 0 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 101 | 106 | 11-161 | 5 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 106 | 105 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 119 | 118 | 10-142 | 1 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 14-157 | 2 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 105 | 105 | 20-144 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 72 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 91 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 86 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 89 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 90 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 51 vo | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 96 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 97 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 94 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 94 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 97 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 94 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 94 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 79 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 95 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 97 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 95 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 96 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 93 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 101 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 97 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 99 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 99 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 103 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 108 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 108 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 108 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 106 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 108 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 104 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 106 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 104 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 104 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 104 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 107 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 112 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 105 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 108 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 107 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 111 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 105 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 104 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 103 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 110 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 105 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 111 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 110 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 118 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 105 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 107 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/02/24

Date Received: 01/15/24

Project: Whidbey Marine 0204475-001, F&BI 401180

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401180-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 77 | 75 | 50-150 | 3 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 76 | 50-150 | 3 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 74 | 72 | 50-150 | 3 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 82 | 50-150 | 1 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 79 | 50-150 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 78 | 50-150 | 0 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 81 | 10-170 | 1 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 82 | 37-139 | 2 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 89 | 10-203 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 84 | 10-208 | 1 |
| Benzo(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 89 | 88 | 37-146 | 1 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 84 | 36-144 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 91 | 40-150 | 1 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 83 | 45-157 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 84 | 50-150 | 4 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 101 | 103 | 24-145 | 2 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 99 | 101 | 31-137 | 2 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 97 | 14-141 | 1 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 81 | 59-105 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 81 | 62-108 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 76 | 62-108 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 87 | 61-111 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 84 | 61-110 |
| Fluorene | mg/kg (ppm) | 0.83 | 82 | 62-114 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 86 | 64-112 |
| Anthracene | mg/kg (ppm) | 0.83 | 88 | 63-111 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 93 | 66-115 |
| Pyrene | mg/kg (ppm) | 0.83 | 91 | 65-112 |
| Benzo(a)anthracene | mg/kg (ppm) | 0.83 | 93 | 64-116 |
| Chrysene | mg/kg (ppm) | 0.83 | 90 | 66-119 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 94 | 62-116 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 86 | 61-118 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 89 | 65-119 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 106 | 64-130 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 104 | 67-131 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 67-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

401180

SAMPLE CHAIN OF CUSTODY

01/15/24 N2

Report To H. Good, V. PehlivanCompany HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) _____

PROJECT NAME

Whoddy Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 1 of 2

TURNAROUND TIME

☒ Standard turnaround☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|--------------------|---------------|-------|--------------|--------------|---|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Dx with Silica Gel | PCBs EPA-8082 | Ph+As | EDB/EDC/MTBE | EPH/UPH (HA) | |
| MW-19D-S1 | 01 A-F | 1/10/24 | 0940 | Soil | 6 | X | X | | | X | X | | | X | X | | x-EPH and VPH on MW-19D-S2 per HG 01/16/24 ME |
| MW-19D-S2 | 02 | | 1000 | | | X | X | | | X | X | A | | X | X | | Notes |
| MW-19D-S3 | 03 | | 1110 | | | X | X | | | X | X | | | X | X | | A-per HG 01/22/24 ME |
| MW-19D-S4 | 04 | | 1120 | | | X | X | | | X | X | | | X | X | 0 | |
| MW-19D-S5 | 05 | | 1335 | | | X | X | | | X | X | | | | | | Include chromatograms |
| MW-19D-S6 | 06 | | 1630 | | | X | X | | | X | X | | | X | X | 0 | w/ TPH analysis |
| HA-2-S1 | 07 | 1/9/24 | 1300 | | | | | | | | | | | | | 0 | Hold EPH/UPH |
| MW-20D-S1 | 08 | 1/11/24 | 1430 | | | X | X | | | X | X | | | X | X | | pending TPH results |
| MW-20D-S2 | 09 | | 1450 | | | X | X | | | X | X | | | X | X | | "0" = Hold |
| MW-20D-S3 | 10 | 1/12/24 | 1155 | | | X | X | | | X | X | | | X | X | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------------|-----------------|---------------------------------|----------|----------|
| Relinquished by: _____ | Andrew Nakahara | HA | 1/15/24 | 07:11:20 |
| Received by: _____ | ANDY PHAN | F&B | 01/15/24 | 11:20 |
| Relinquished by: _____ | | Samples received at <u>1</u> °C | | |
| Received by: _____ | | | | |

401180

SAMPLE CHAIN OF CUSTODY

01/15/24 N2

Report To H. Good, V. PehlivanCompany HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 2 of 2

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

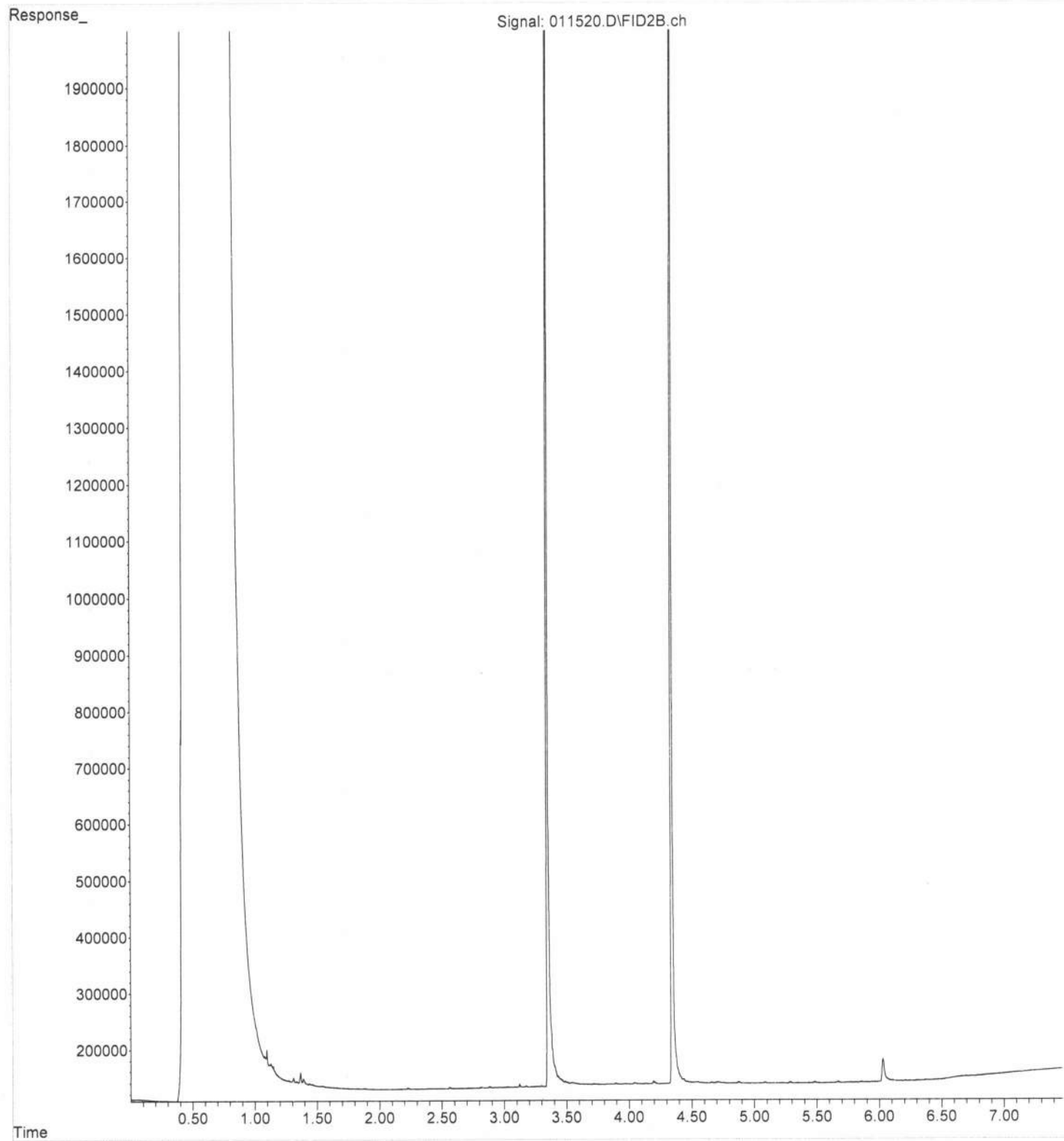
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | cVOCs | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---------------|---------|-----|-----------|---------|-----------------------|-------|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | PL + AS | EDB | MTBE, EDB | B + C + | | |
| MW-20P-54 | 11 A-F | 1/12/24 | 1745 | Soil | 6 | X | X | | | X | X | | X | X | | | Include chromatograms | |
| MW-20P-55 | 12 ↓ | ↓ | 1915 | ↓ | 6 | X | X | | | X | X | | X | X | X | A | w/TPH analysis | |
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Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|---------------------------------|-----------------|--------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nabalman</u> | <u>HA</u> | <u>1/15/24</u> | <u>11:20</u> |
| Received by: <u>[Signature]</u> | <u>ANHPHAN</u> | <u>F&B</u> | <u>01/15/24</u> | <u>11:20</u> |
| Relinquished by: | | Samples received at <u>1</u> °C | | |
| Received by: | | | | |

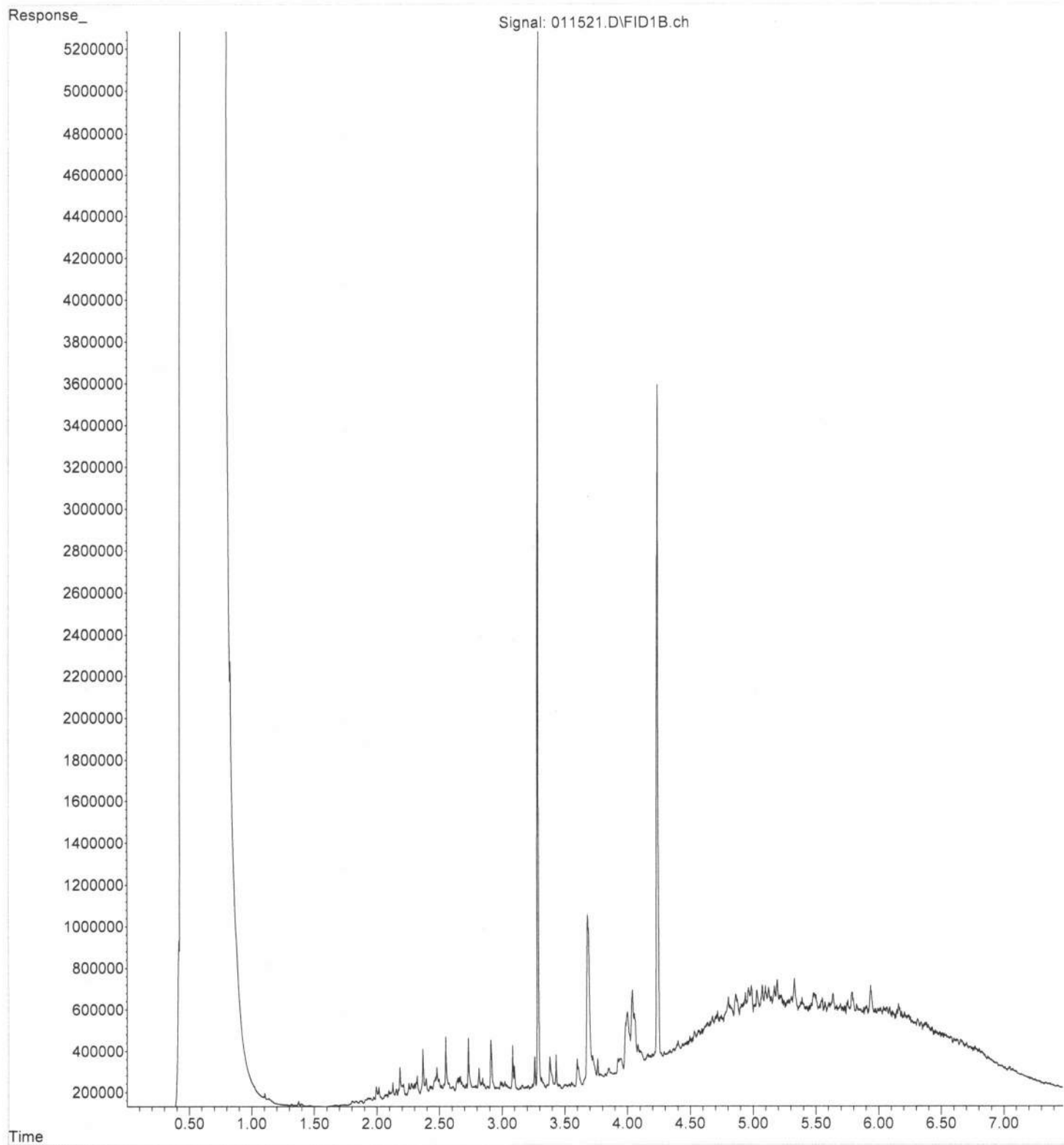
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Acquired : 15 Jan 2024 03:32 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-01
Misc Info : 8701-16
Vial Number: 17

ERR



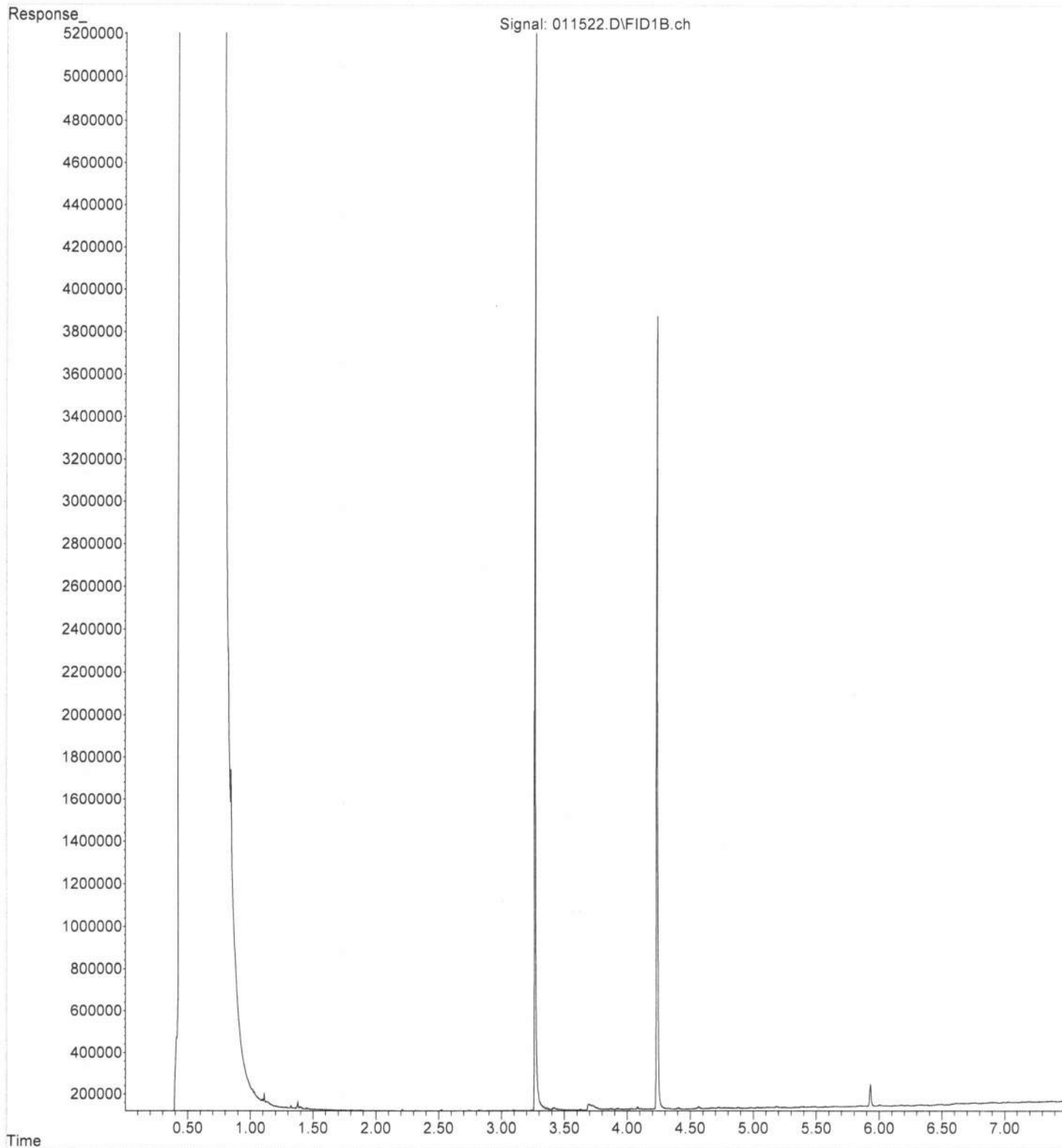
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Operator : TL
Acquired : 15 Jan 2024 03:43 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-02
Misc Info : 8 J 01-16
Vial Number: 18

ERR



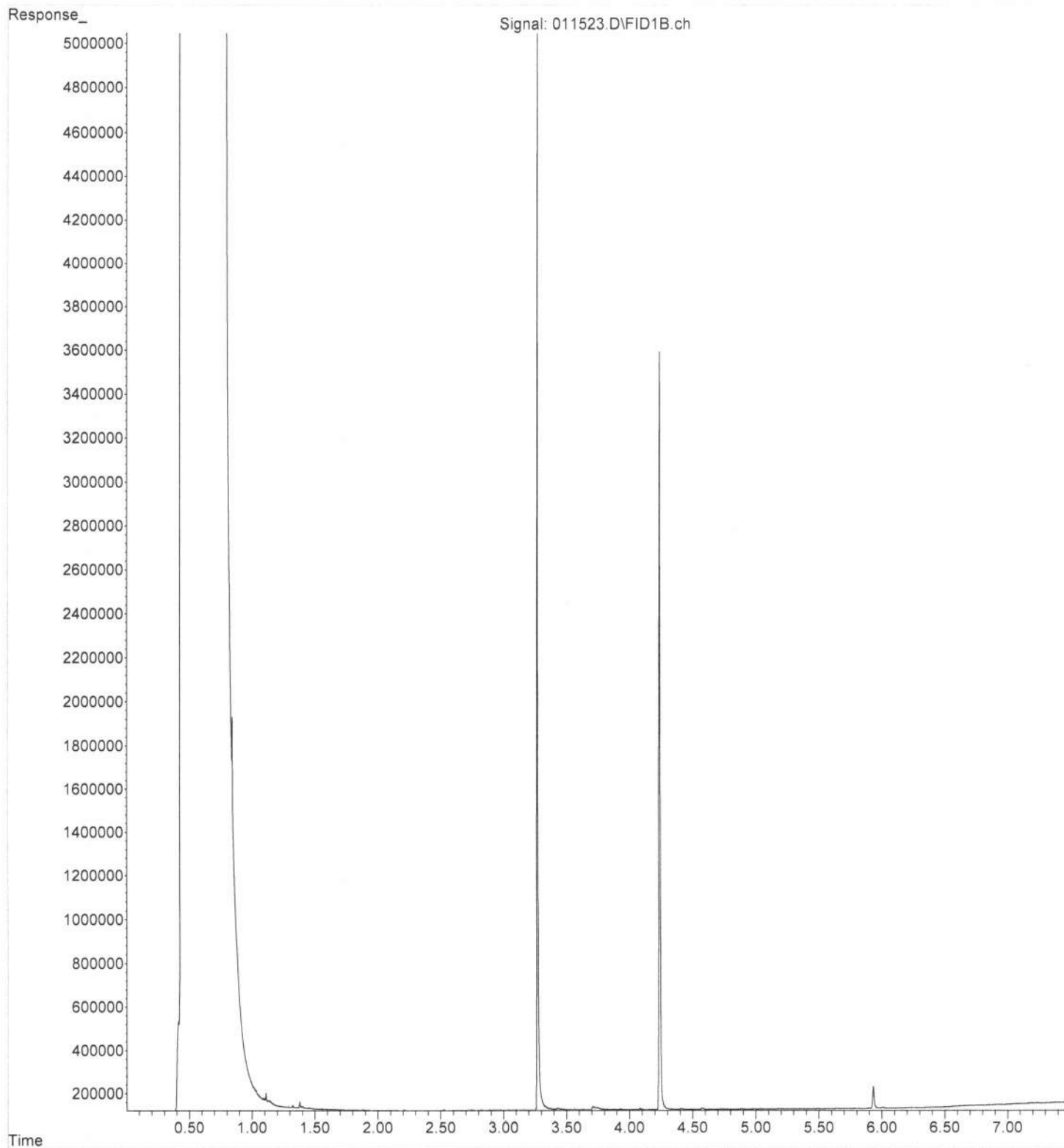
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Instrument : GC13
Sample Name: 401110-03
Misc Info : 8 J0116
Vial Number: 19

ERR



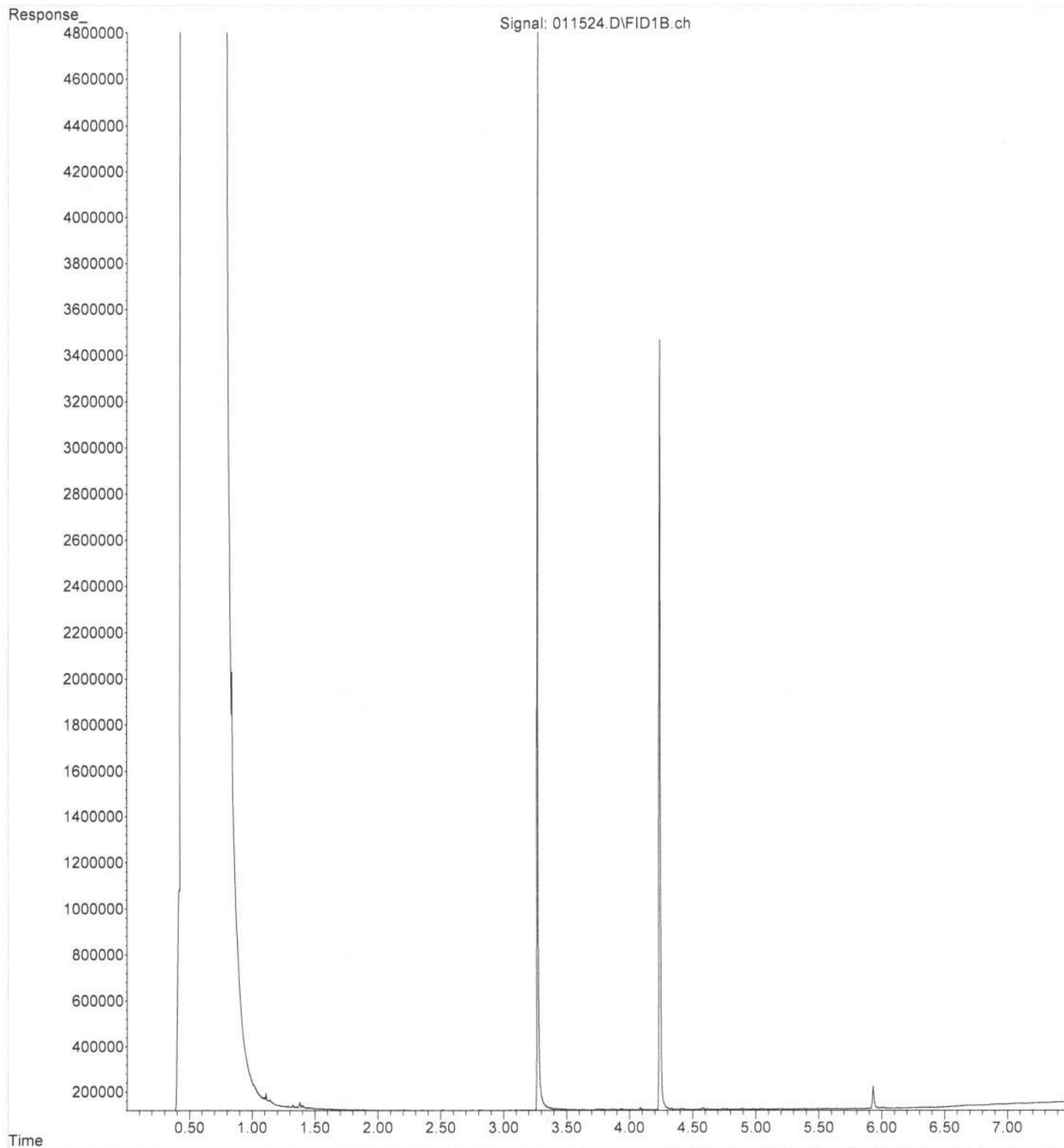
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Instrument : GC13
Sample Name: 401170-04
Misc Info : *8 Feb 16*
Vial Number: 20

ERR



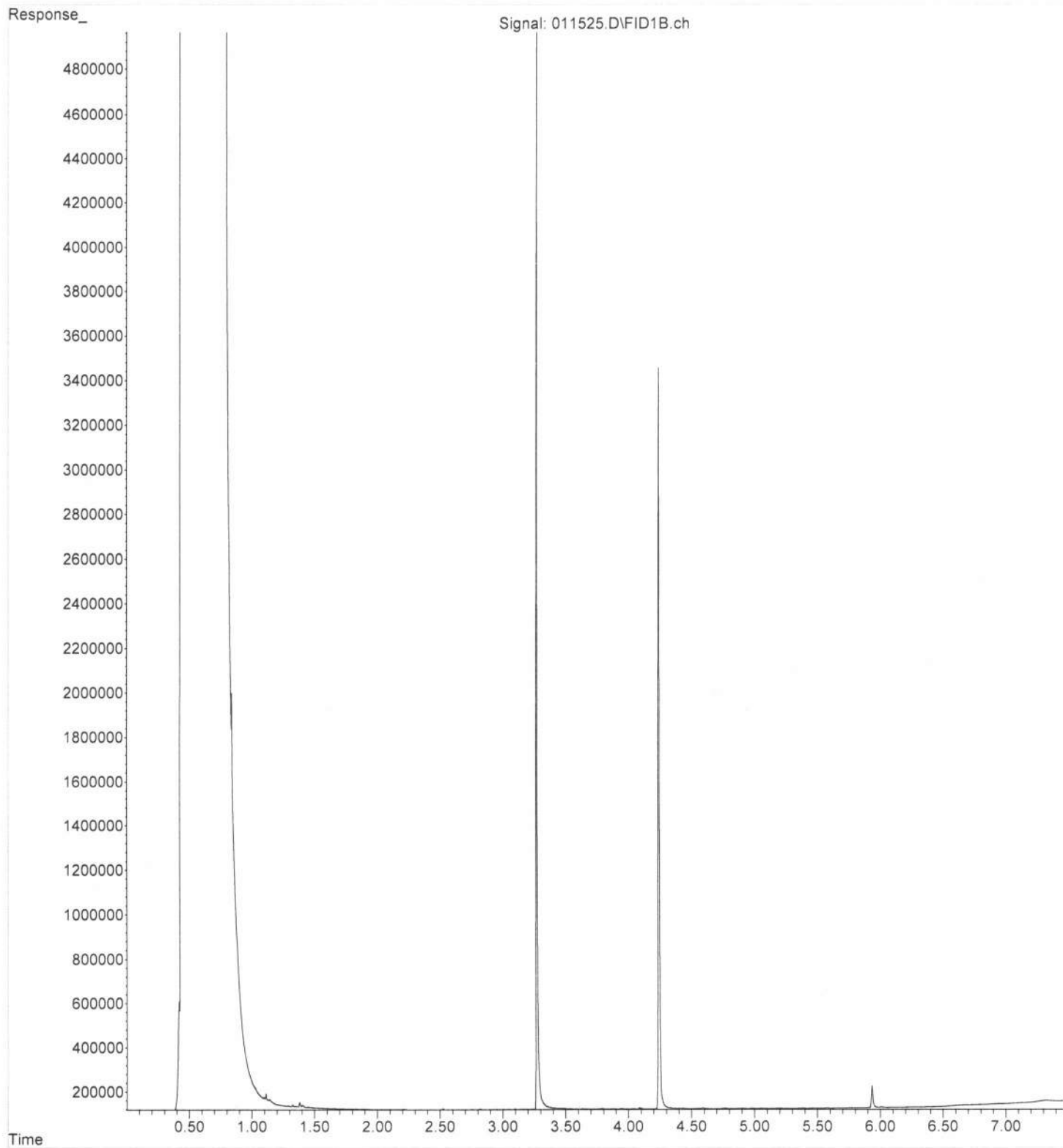
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Operator : TL
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Instrument : GC13
Sample Name: 401170-05
Misc Info : 8 Feb 16
Vial Number: 21

ERR



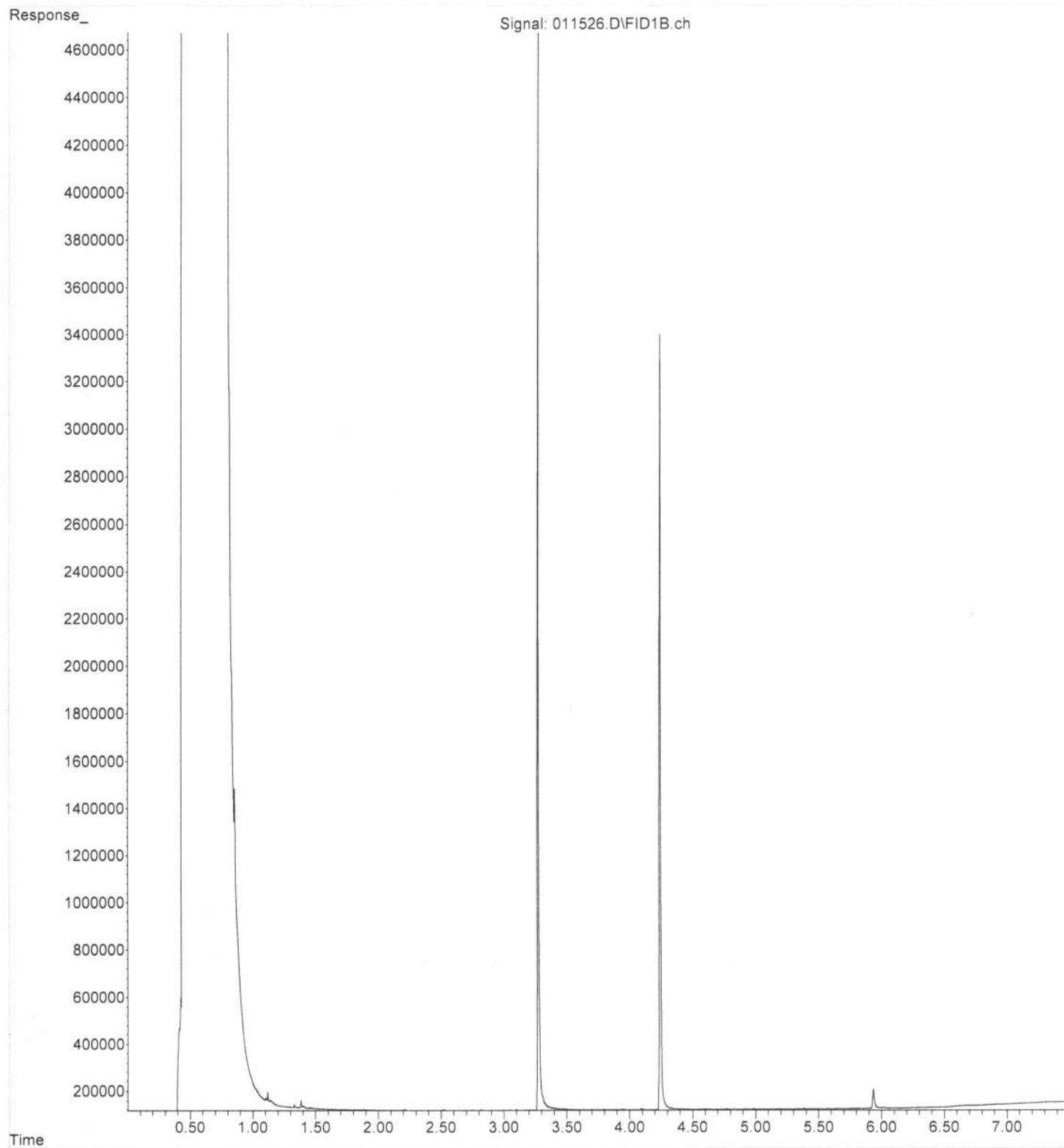
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Operator : TL
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Instrument : GC13
Sample Name: 401110-06
Misc Info : 8 401.16
Vial Number: 22

ERR



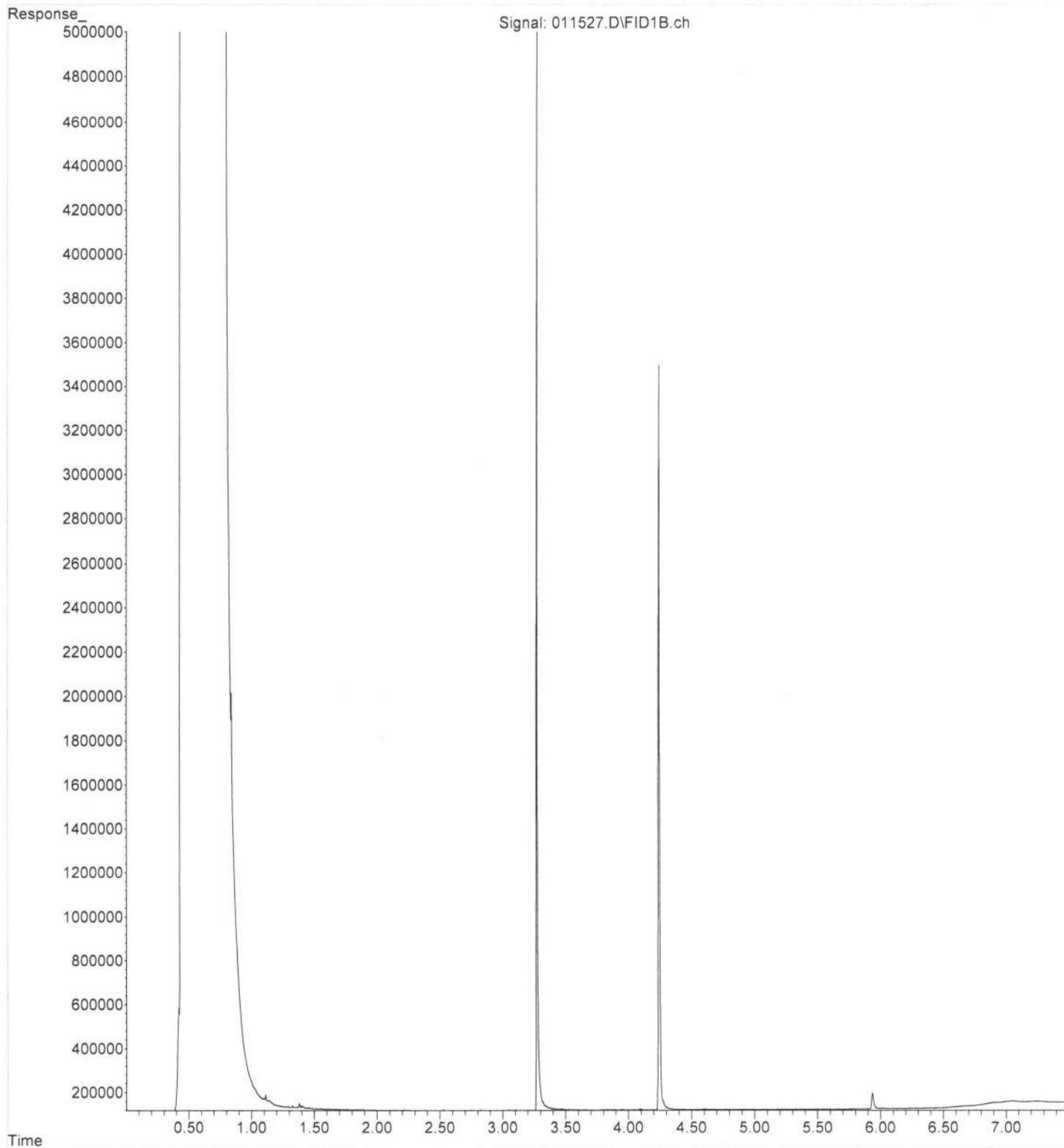
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Instrument : GC13
Sample Name: 401170-08
Misc Info : 8 401.16
Vial Number: 23

ERR



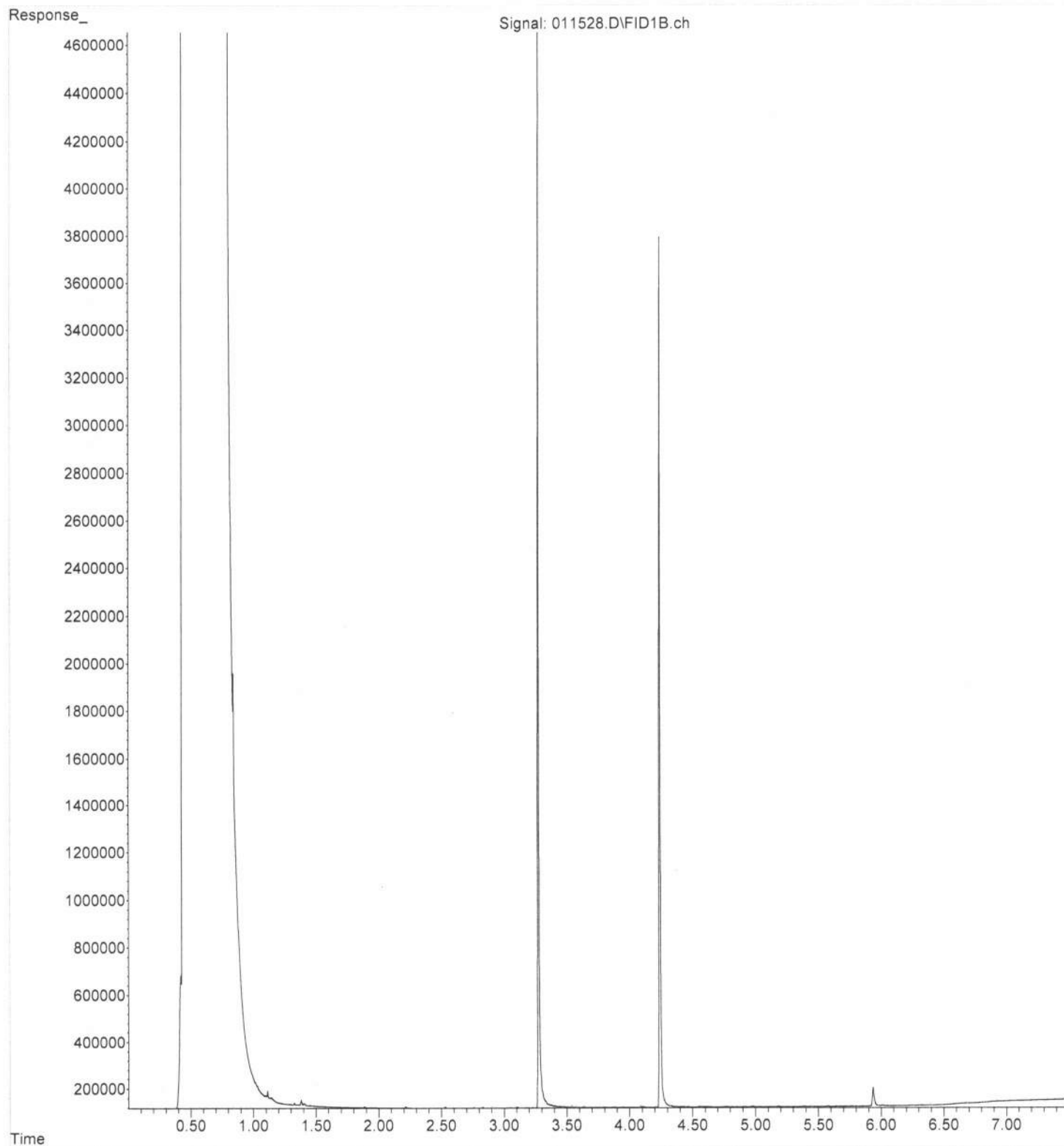
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Operator : TL
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Instrument : GC13
Sample Name: 4011~~10~~-09
Misc Info : 8 Feb 16
Vial Number: 24

ERR



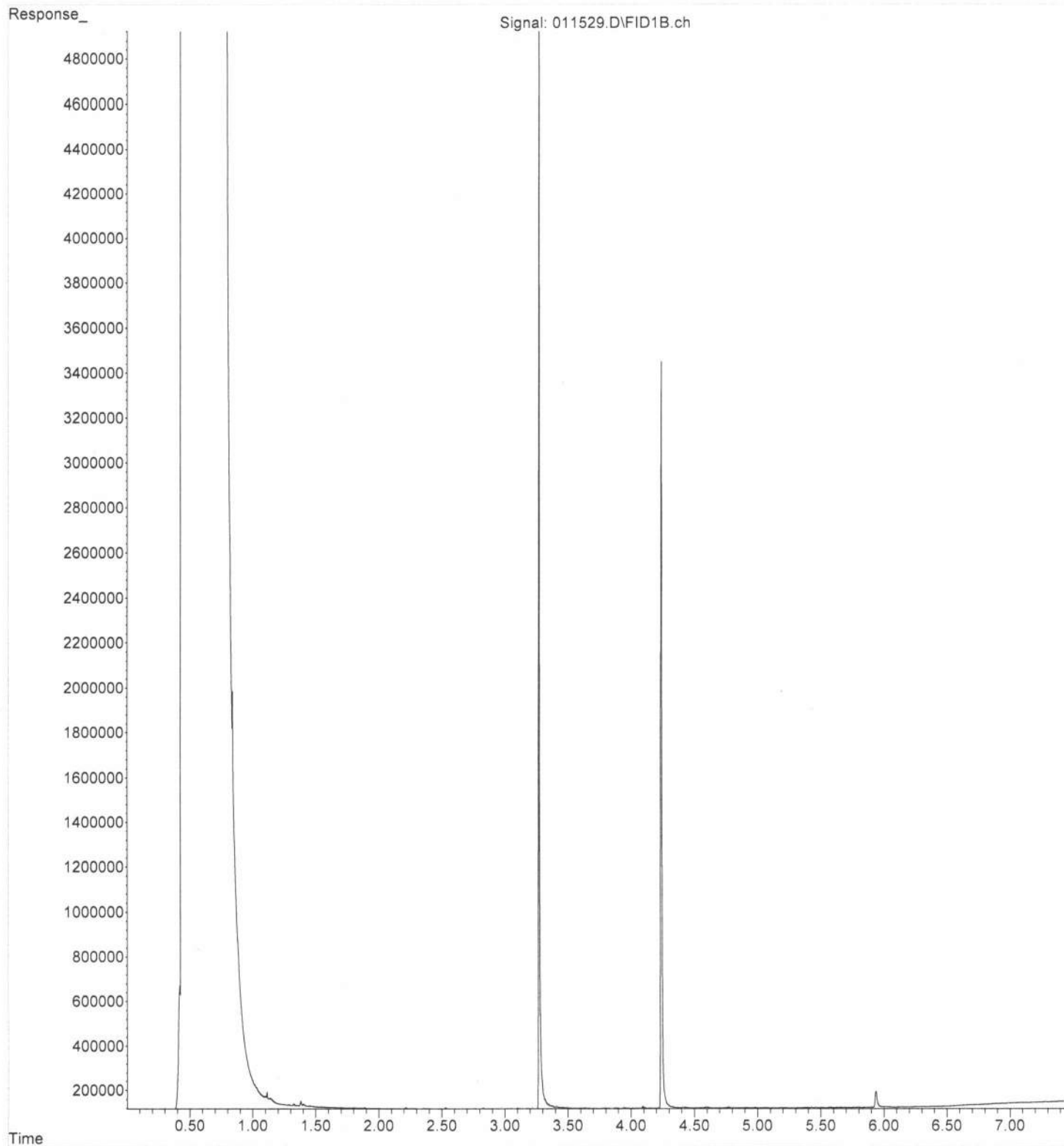
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Instrument : GC13
Sample Name: 401160-10
Misc Info : 8701-15
Vial Number: 25

ERR



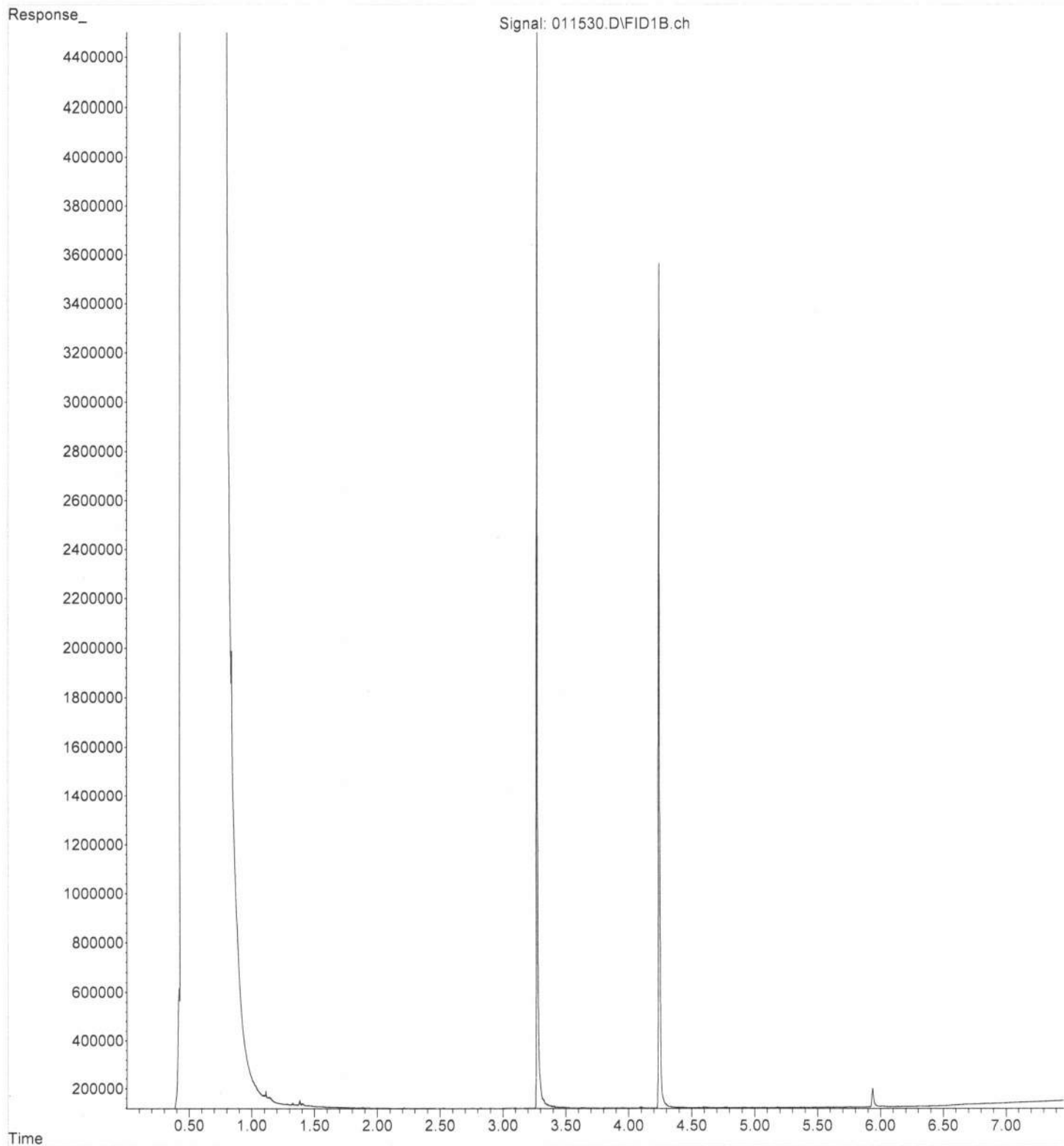
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Operator : TL
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Instrument : GC13
Sample Name: 4011~~10~~-11
Misc Info : 8 Jan 16
Vial Number: 26

ERR



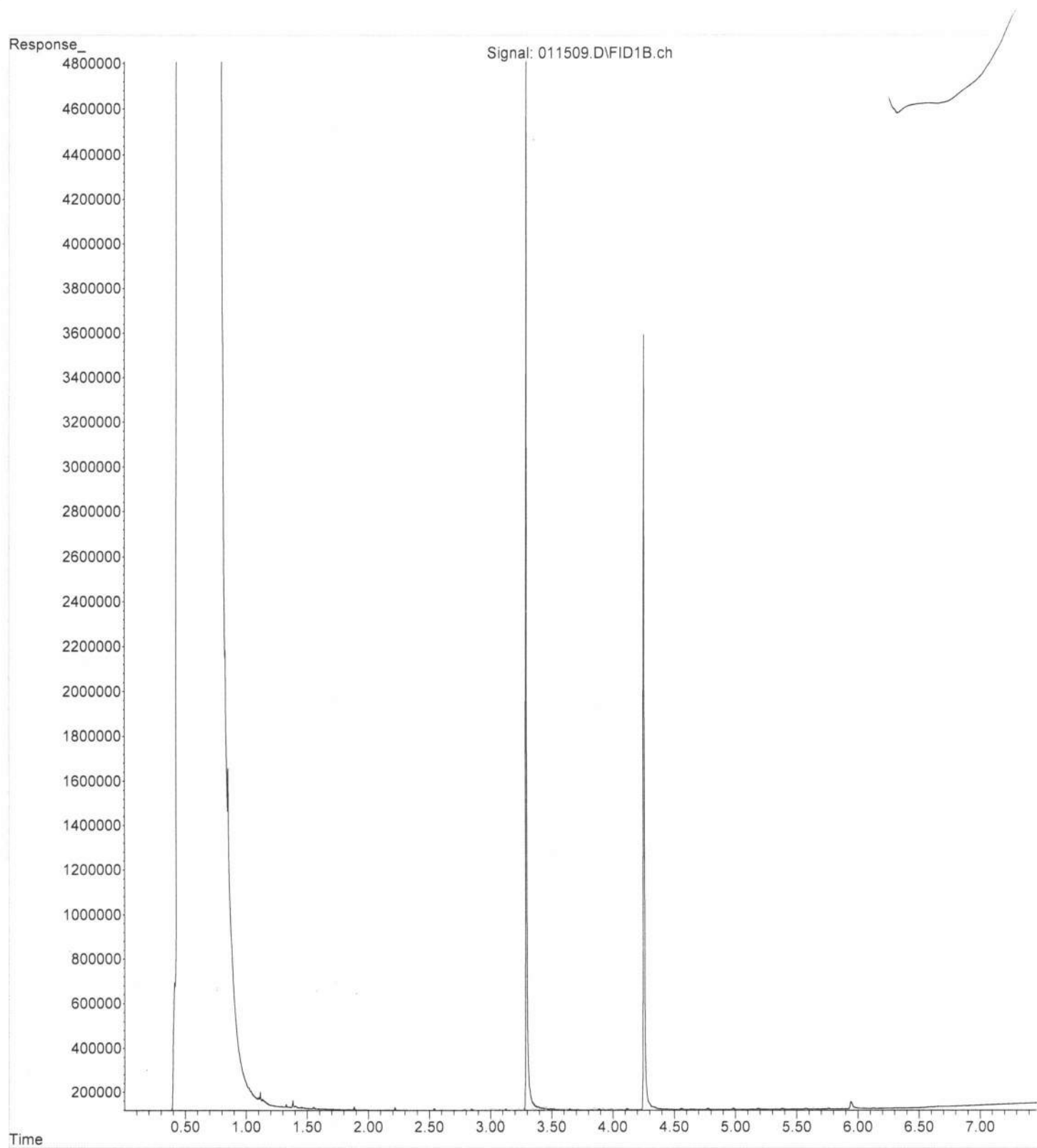
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Instrument : GC13
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Vial Number: 27

ERR



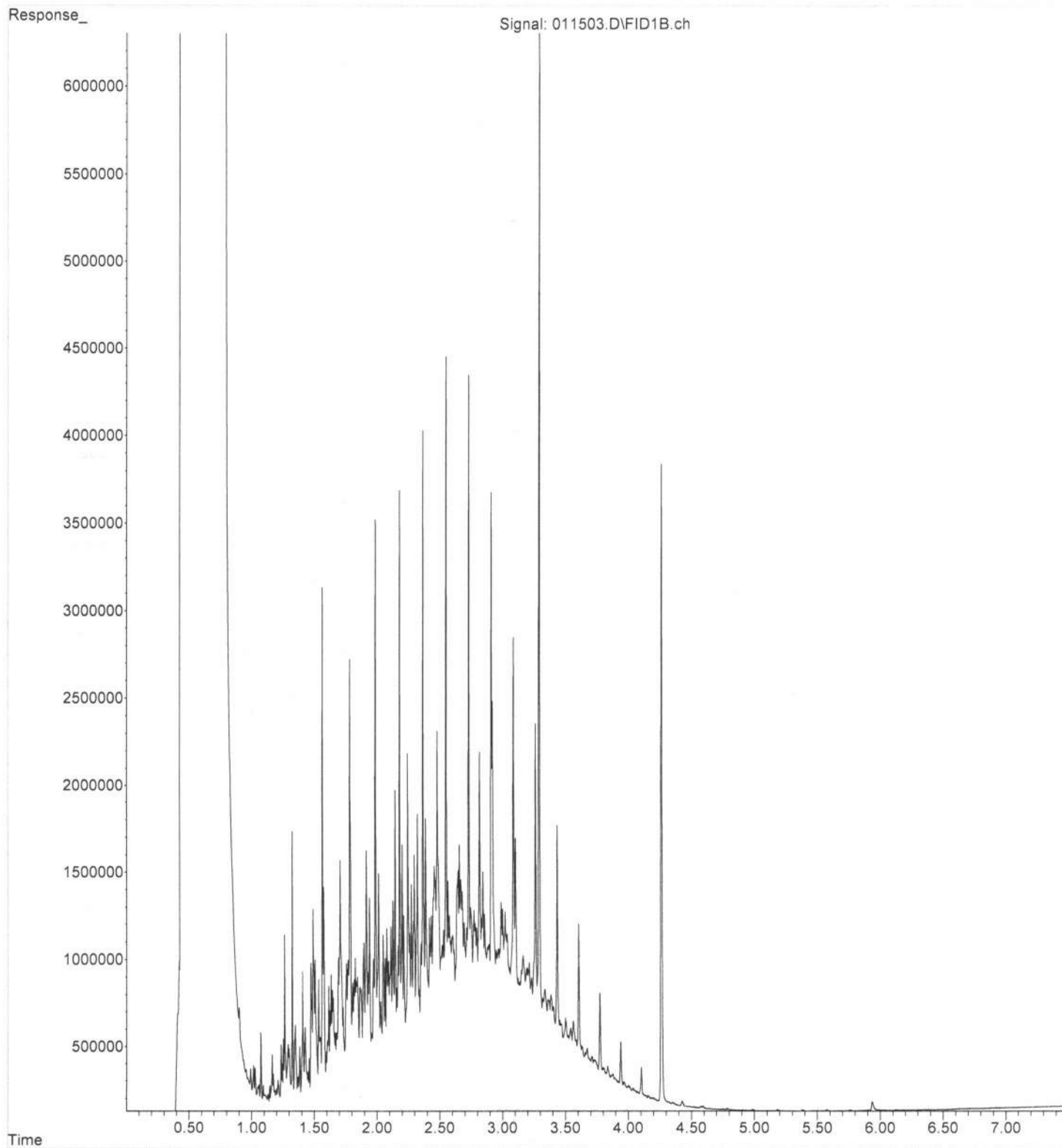
File :P:\Proc_GC13\01-15-24\011509.D
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Acquired : 15 Jan 2024 09:34 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-145 mb
Misc Info :
Vial Number: 11

ERR

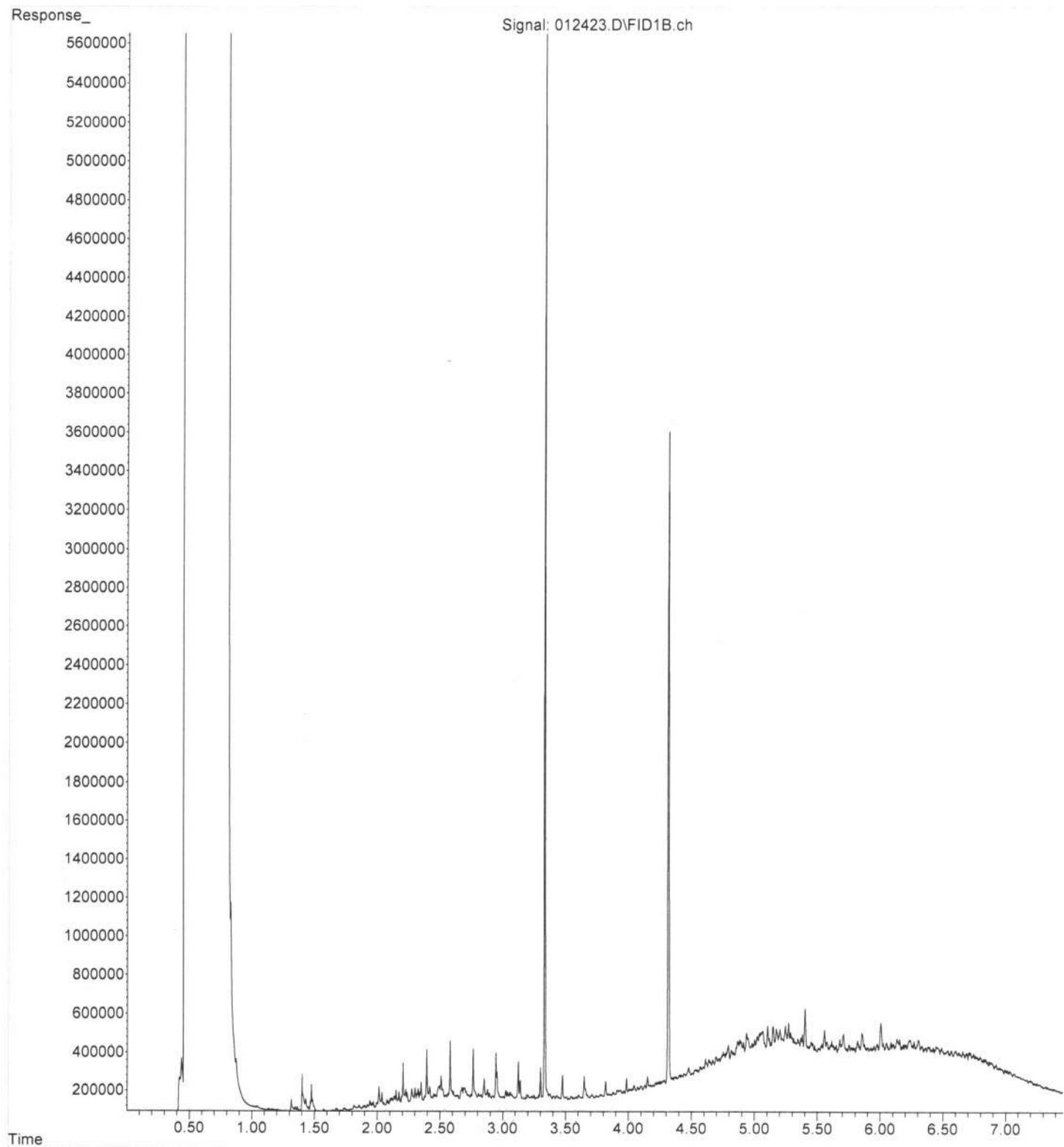


File : P:\Proc_GC13\01-15-24\011503.D
Operator : TL
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Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

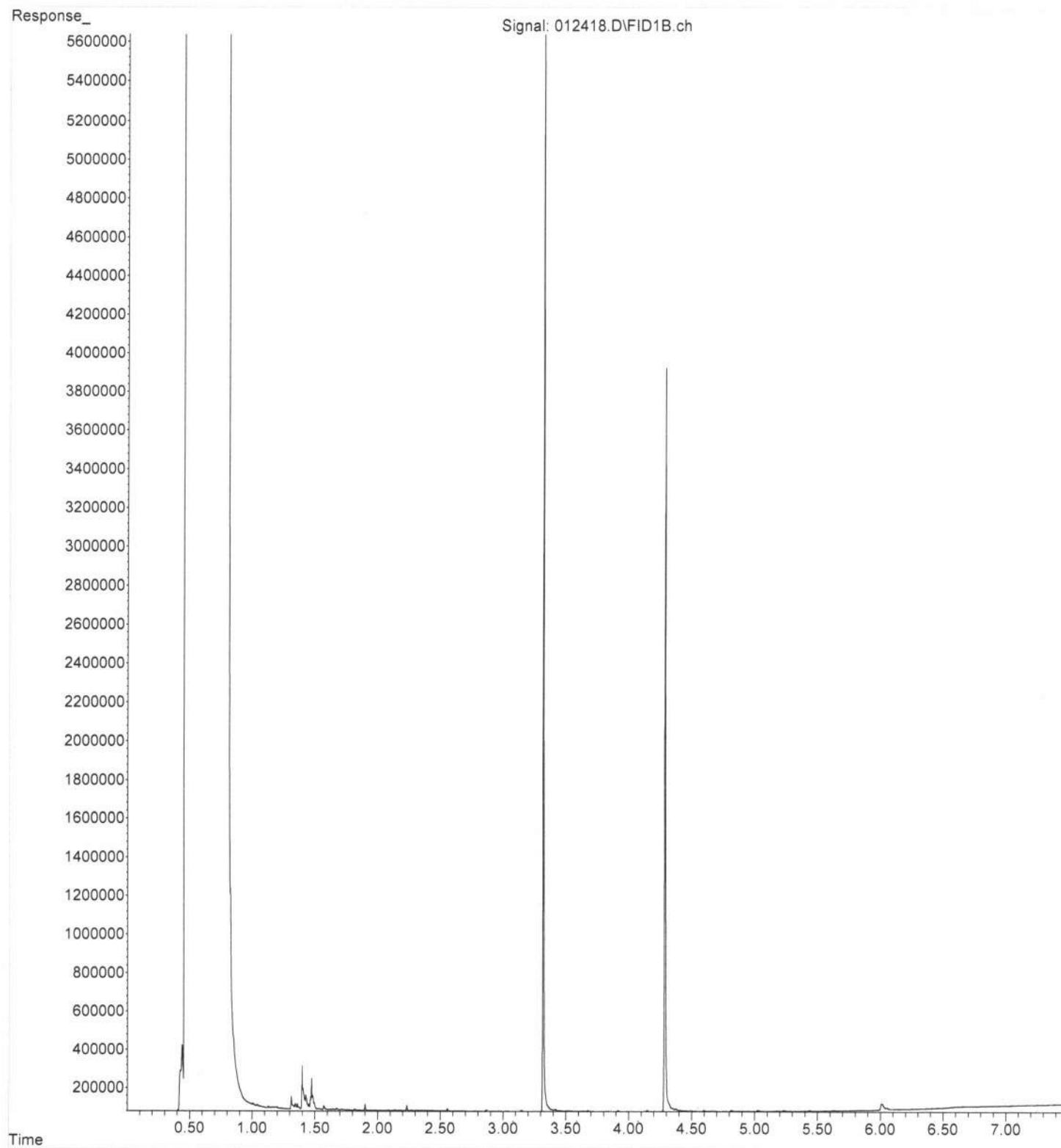
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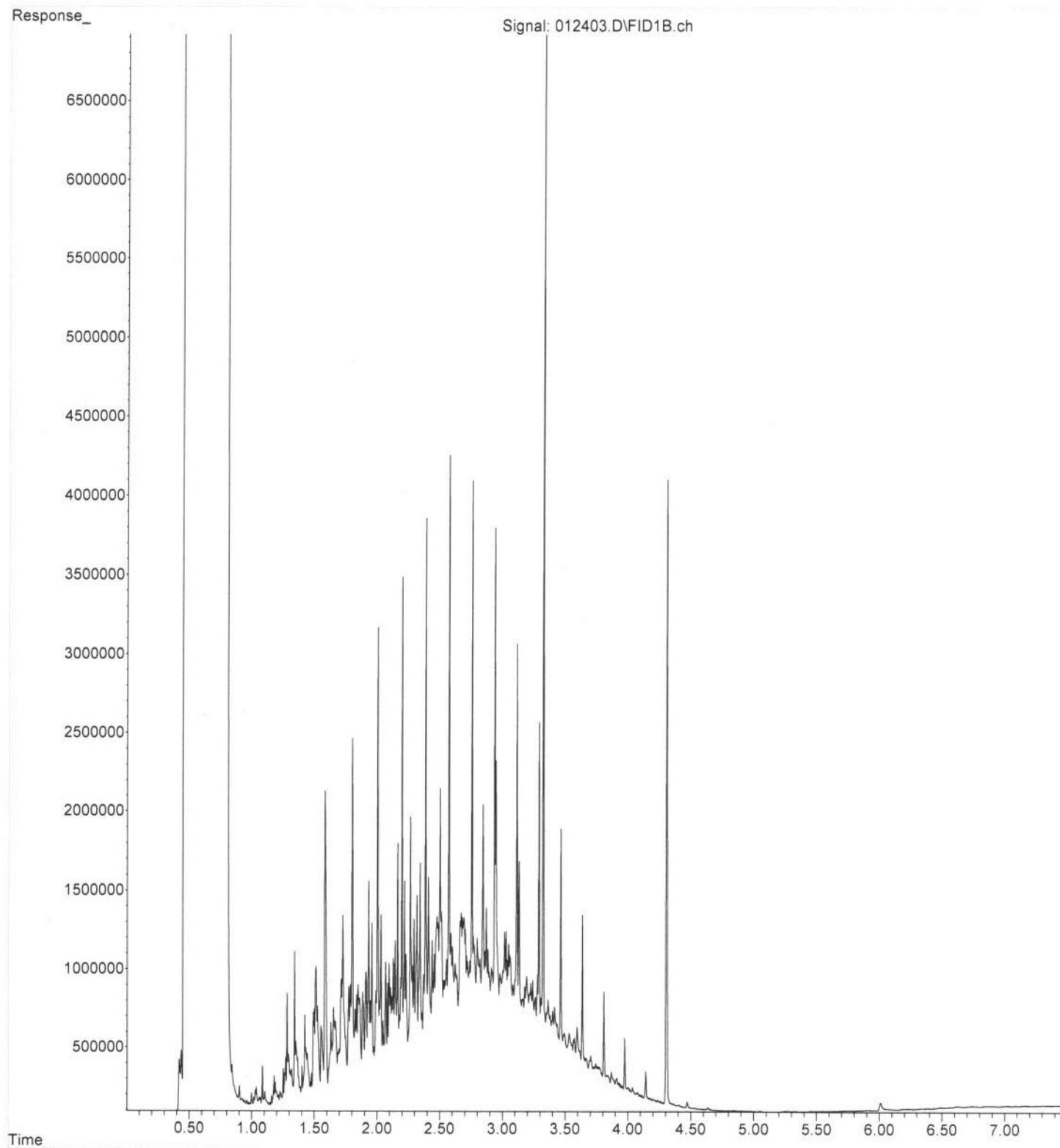
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Operator : IJL
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Instrument : GC10
Sample Name: 401180-02 sg
Misc Info :
Vial Number: 21



File :P:\Proc_GC10\01-24-24\012418.D
Operator : IJL
Acquired : 24 Jan 2024 02:52 pm using AcqMethod DX.M
Instrument : GC10
Sample Name: 04-145 mb sg
Misc Info :
Vial Number: 16

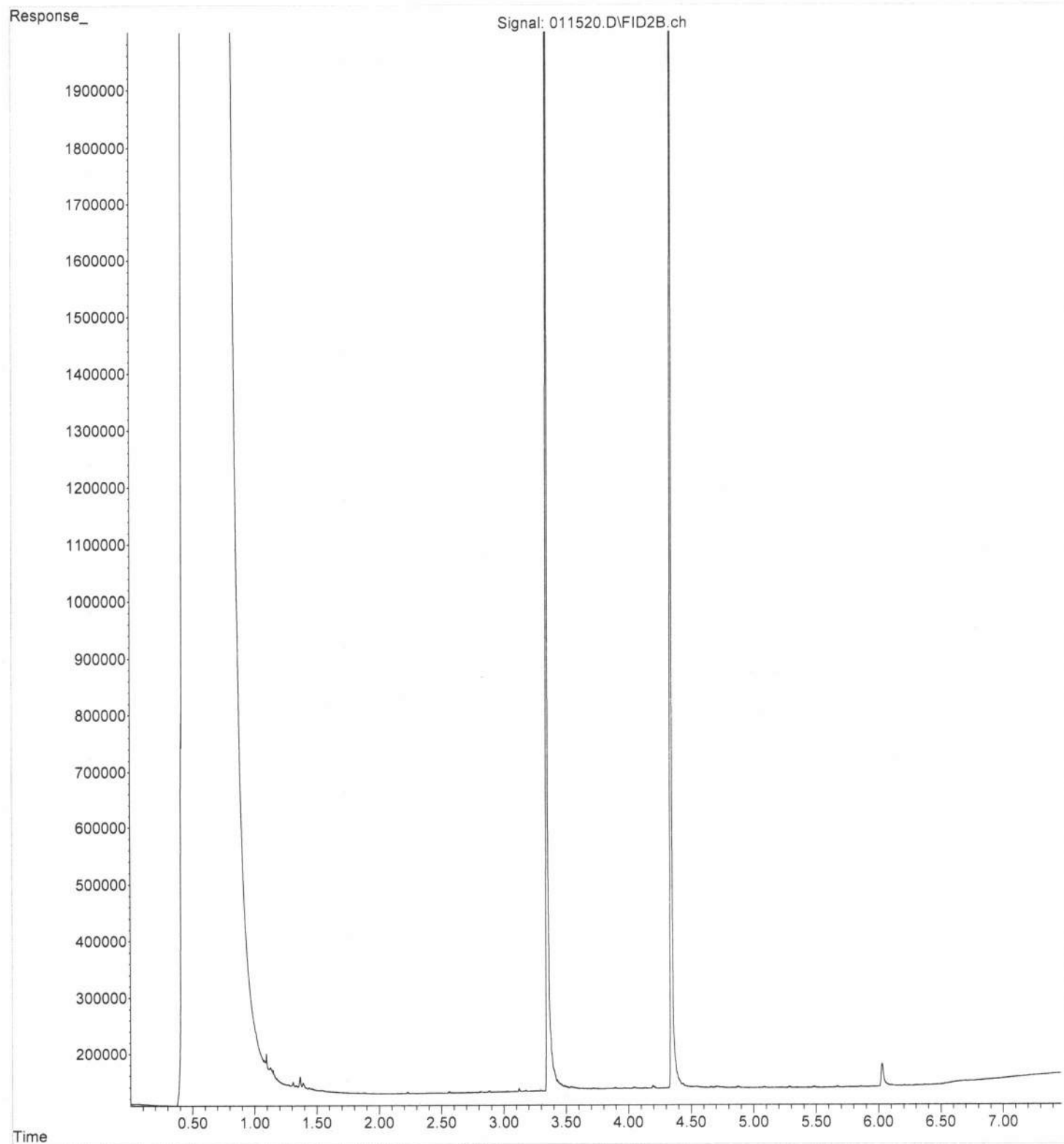


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Instrument : GC10
Sample Name: 500 DX 70-26F
Misc Info :
Vial Number: 3



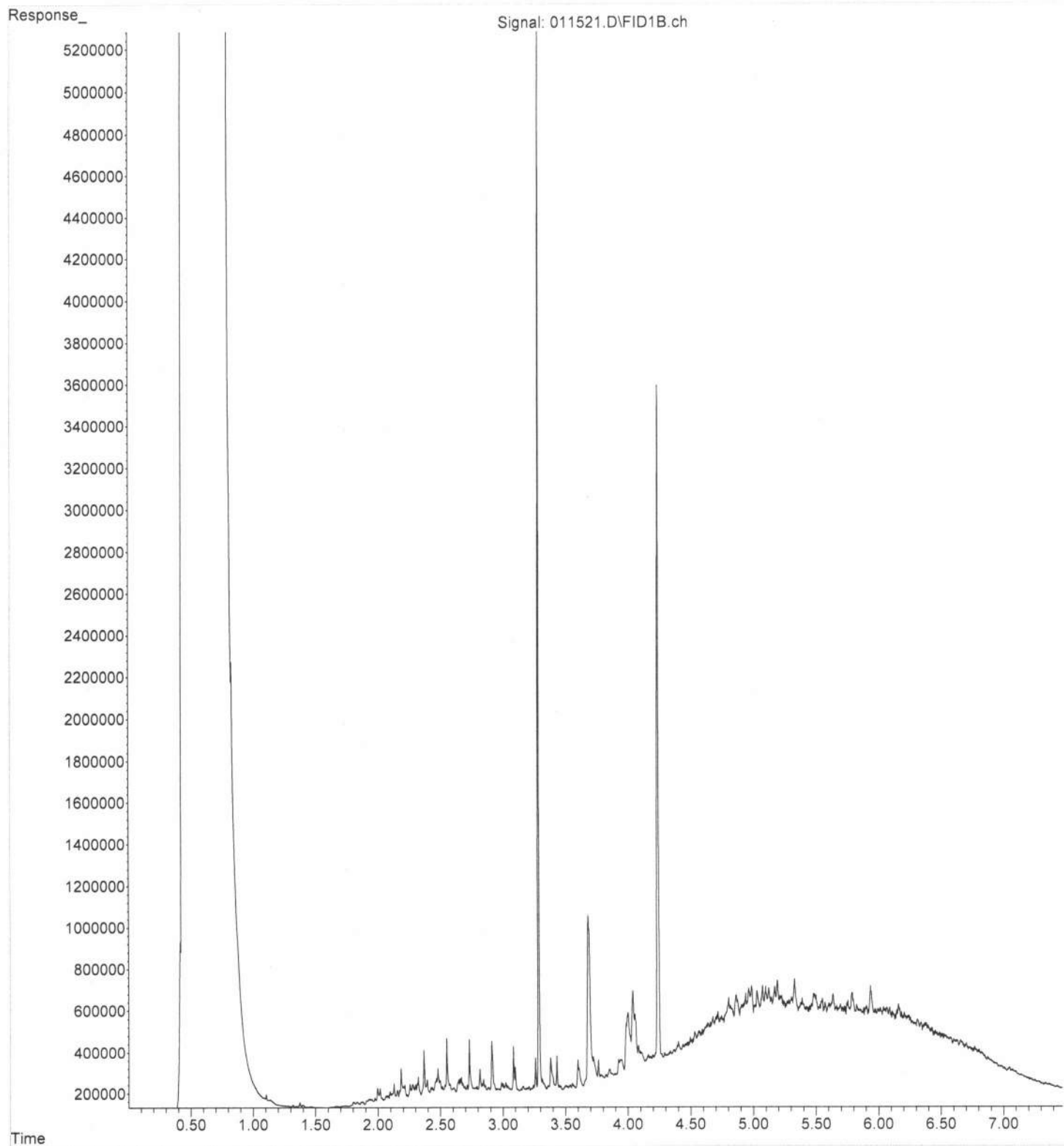
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Operator : TL
Acquired : 15 Jan 2024 03:32 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-01
Misc Info : 8701-16
Vial Number: 17

ERR



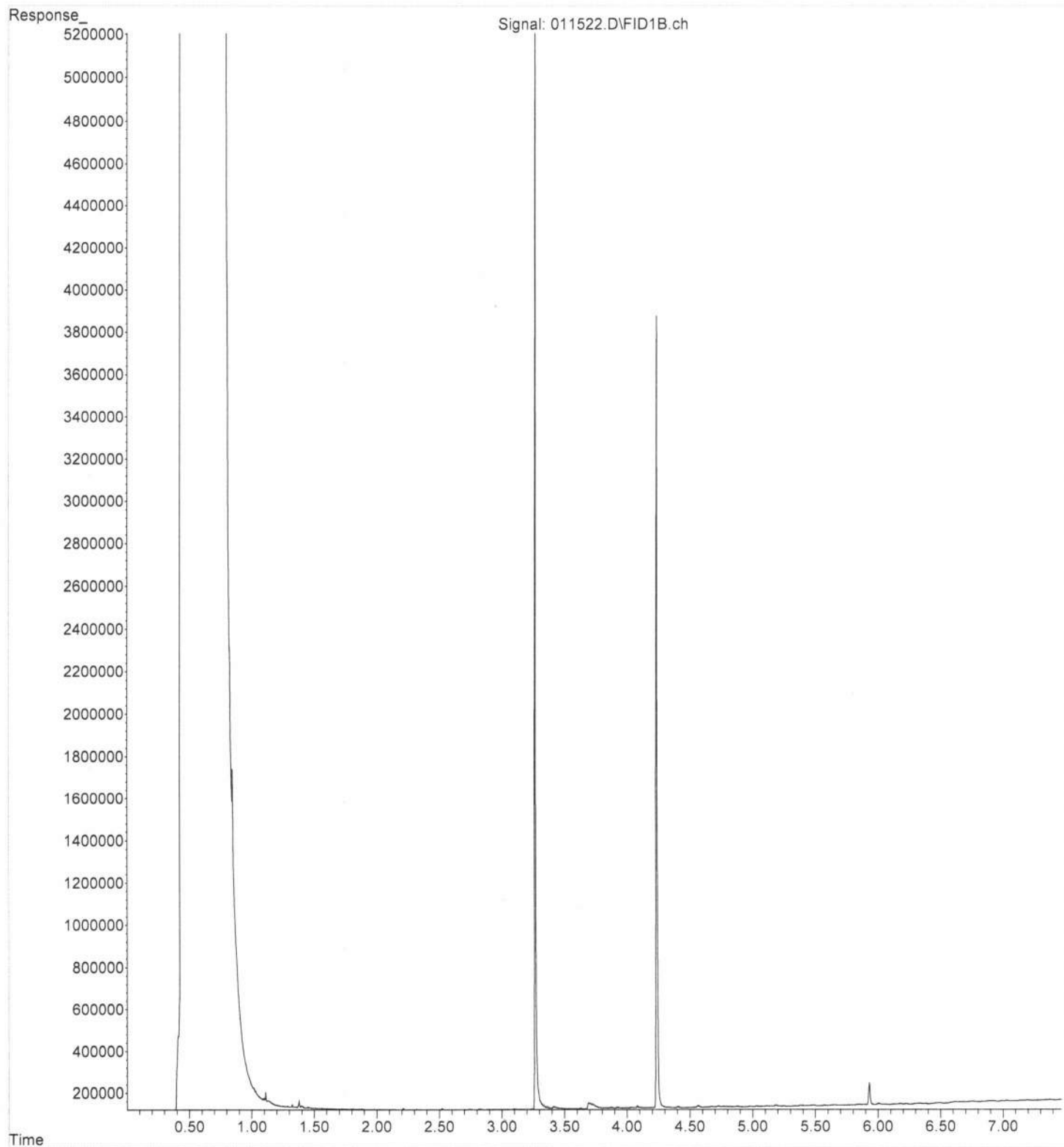
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Operator : TL
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Instrument : GC13
Sample Name: 401150-02
Misc Info : 8101-16
Vial Number: 18

ERR



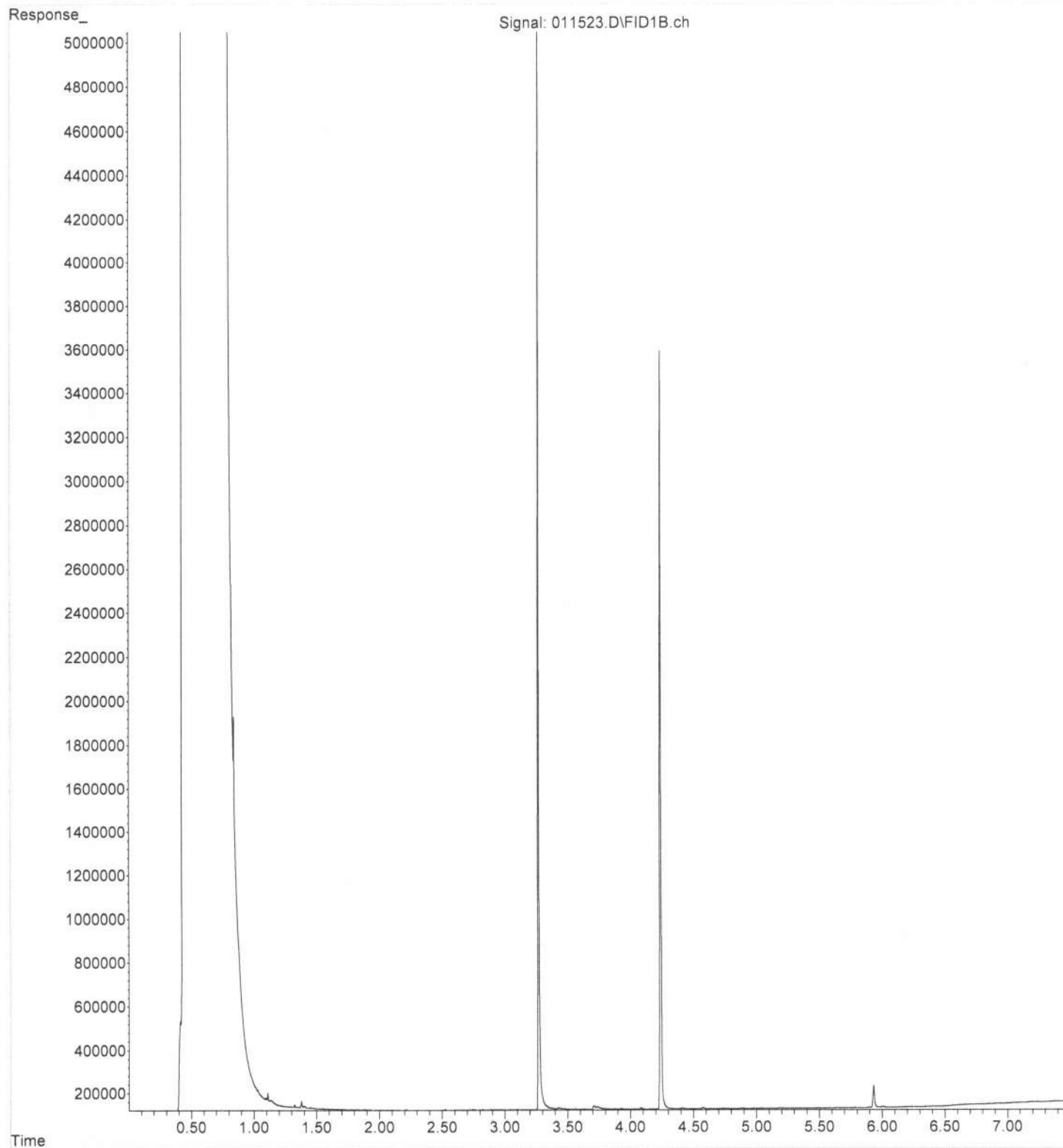
File : P:\Proc_GC13\01-15-24\011522.D
Operator : TL
Acquired : 15 Jan 2024 03:54 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-03
Misc Info : *8 J 0116*
Vial Number: 19

ERR



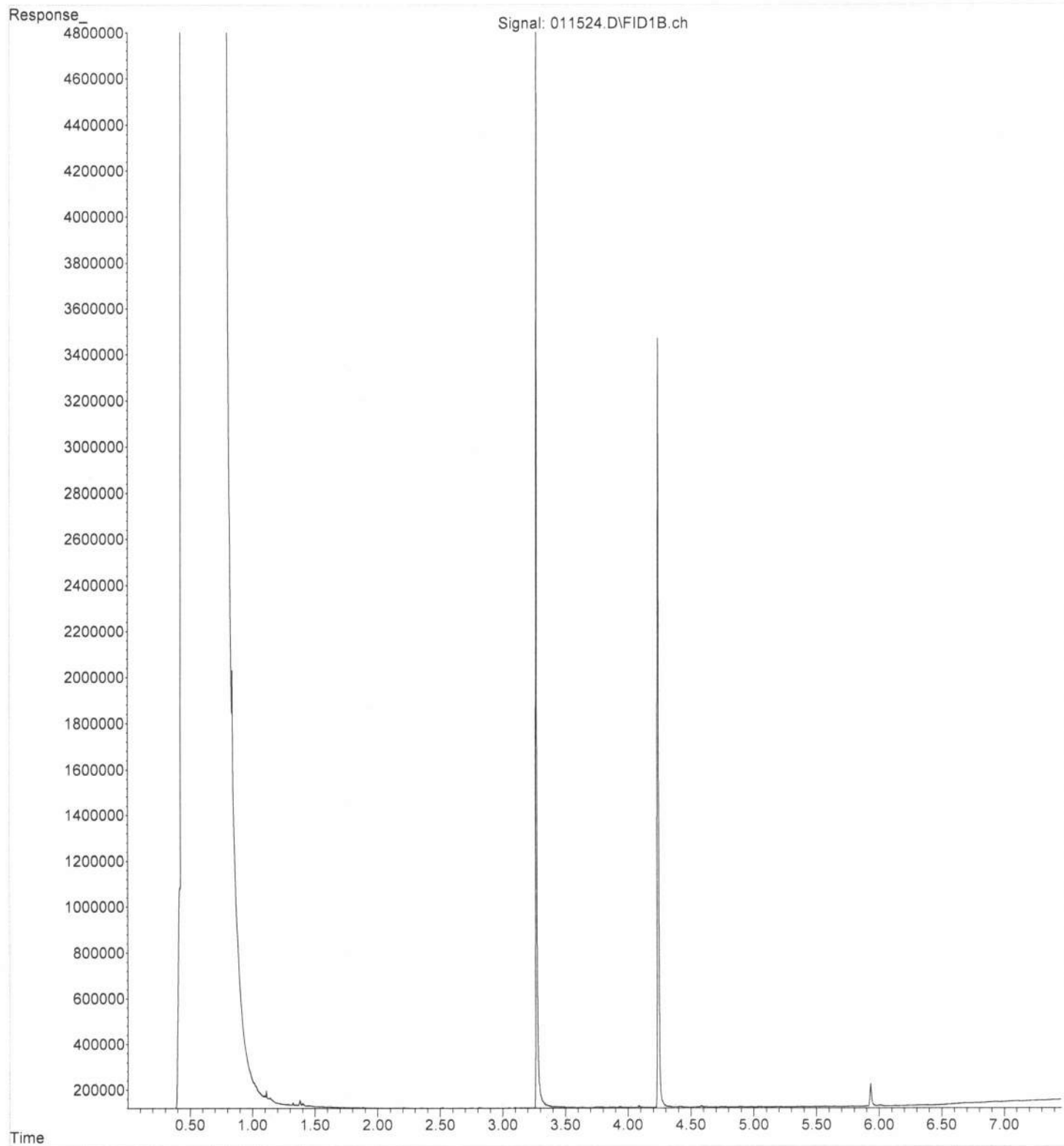
File : P:\Proc_GC13\01-15-24\011523.D
Operator : TL
Acquired : 15 Jan 2024 04:05 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401150-04
Misc Info : *8 Feb 16*
Vial Number: 20

ERR



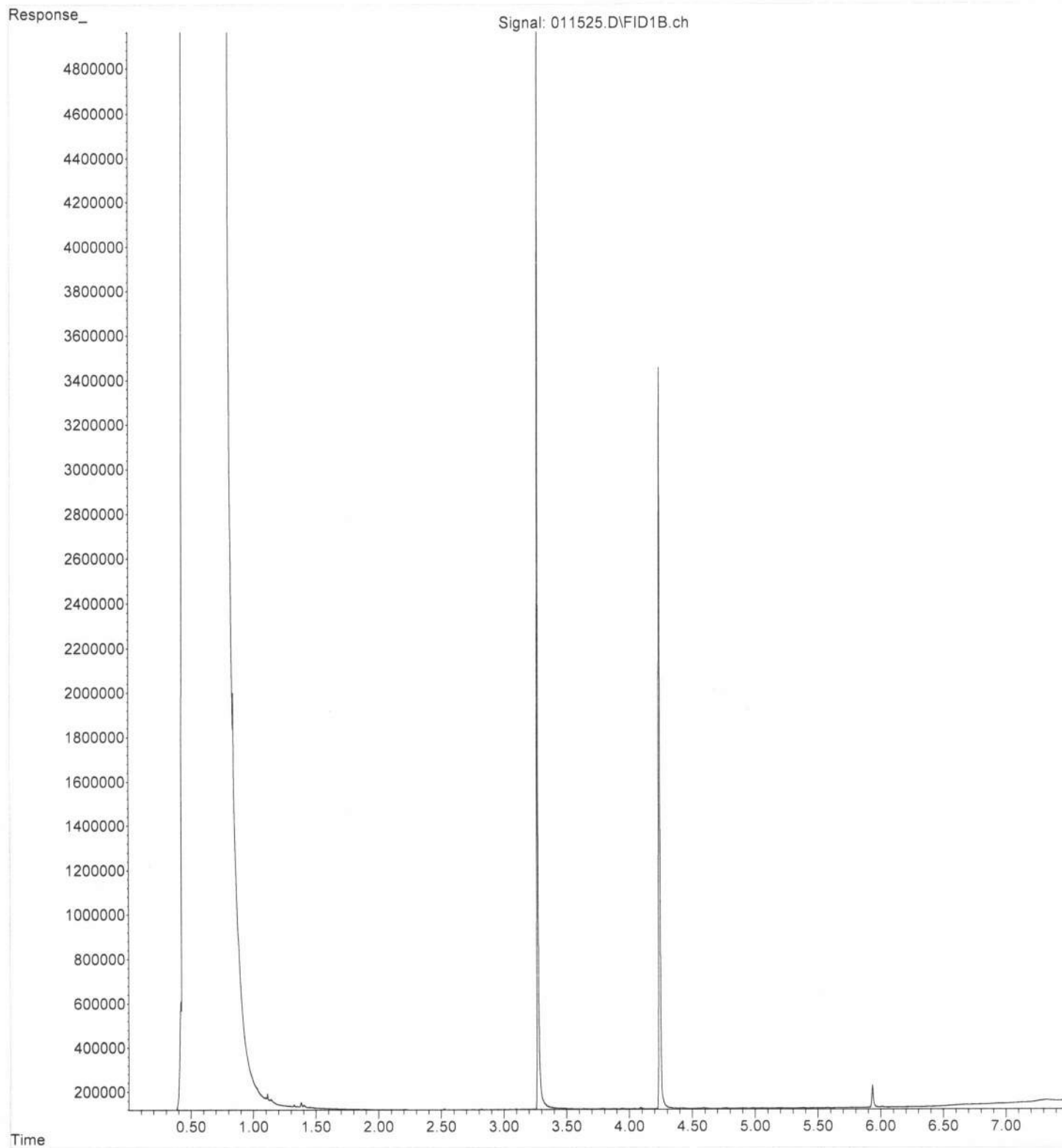
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Instrument : GC13
Sample Name: 401150-05
Misc Info : 8 Jan 16
Vial Number: 21

ERR



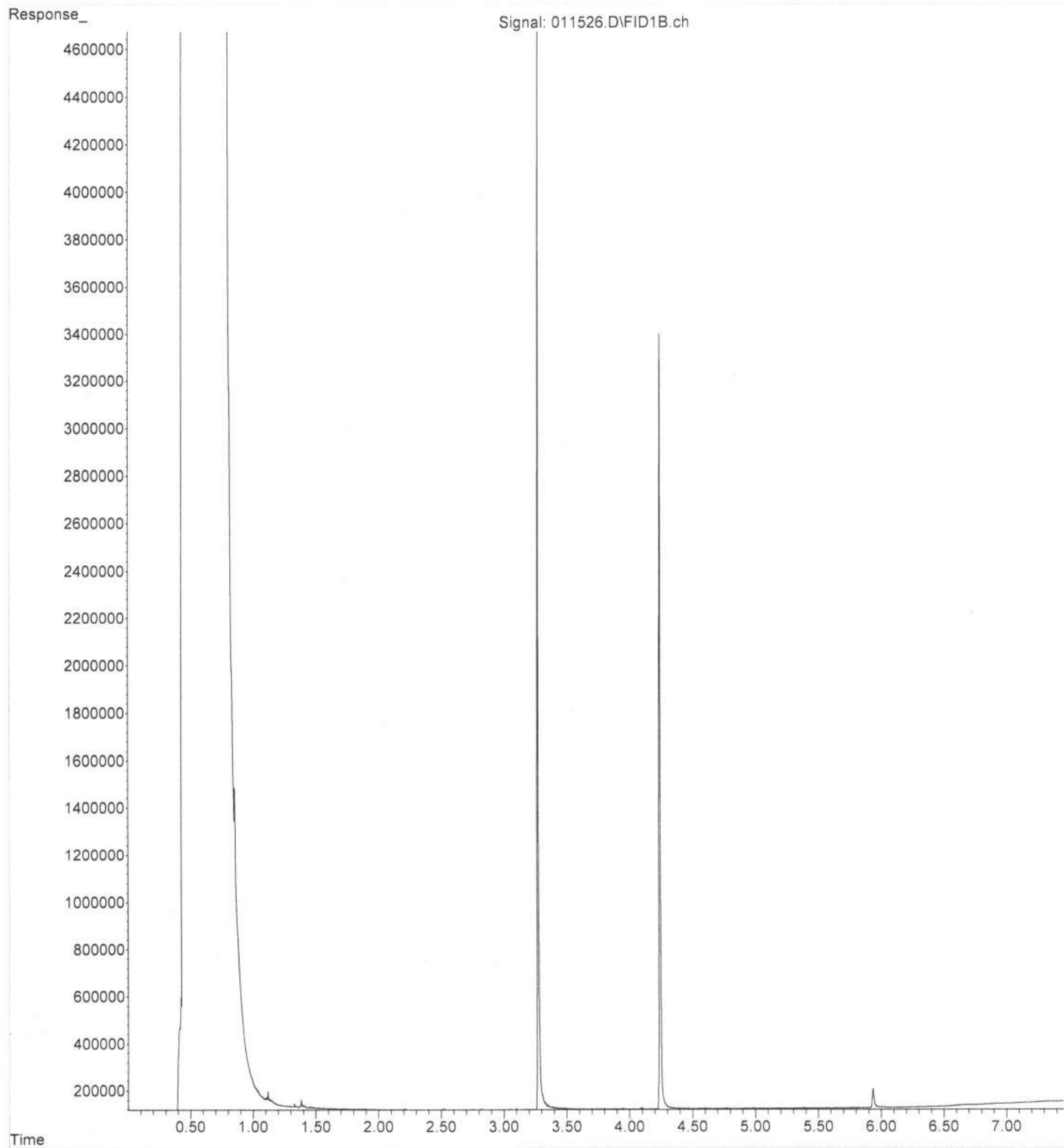
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Instrument : GC13
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Misc Info : 8 Jan 16
Vial Number: 22

ERR



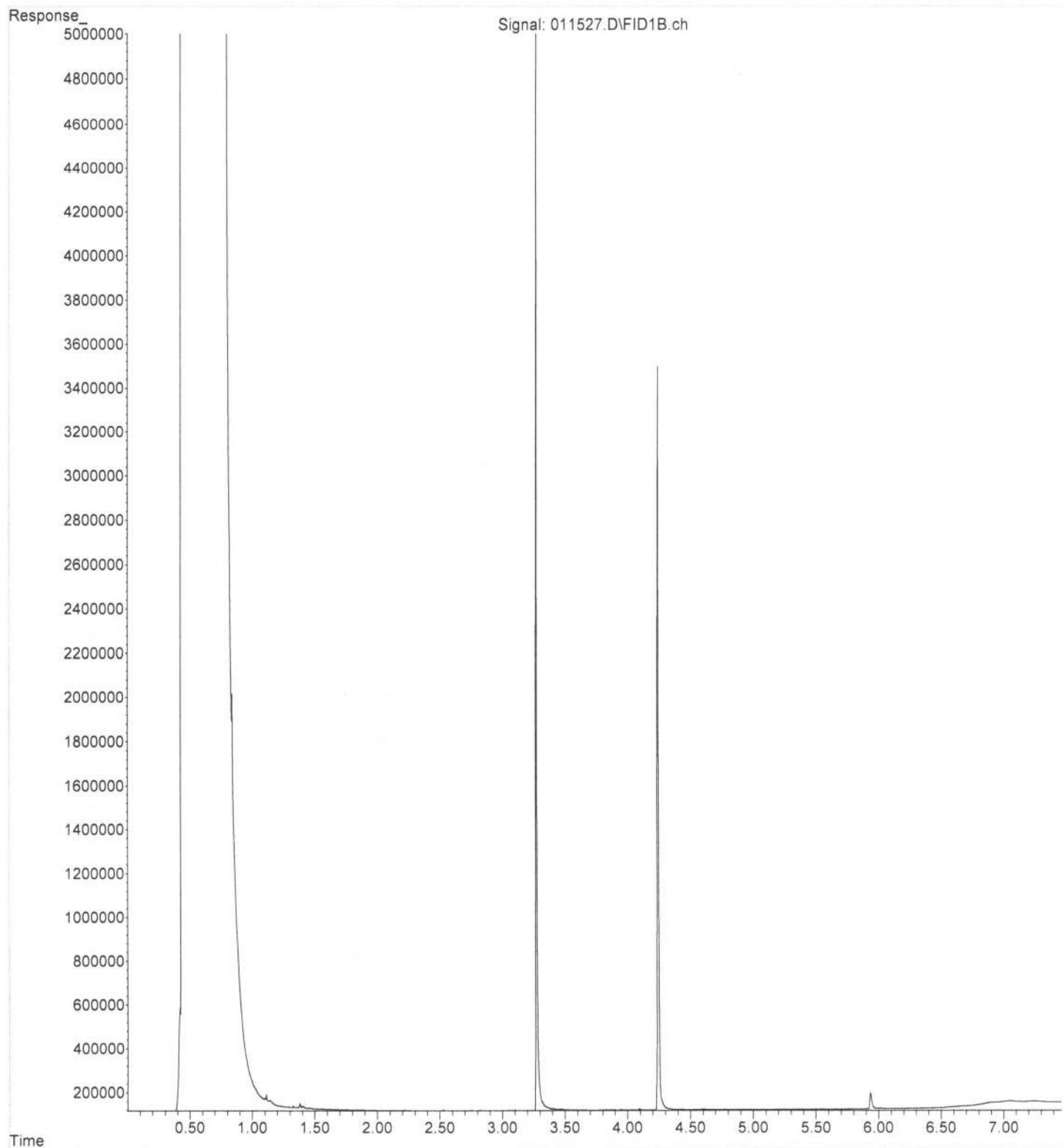
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Operator : TL
Acquired : 15 Jan 2024 04:38 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401170-08
Misc Info : 8 401.16
Vial Number: 23

ERR



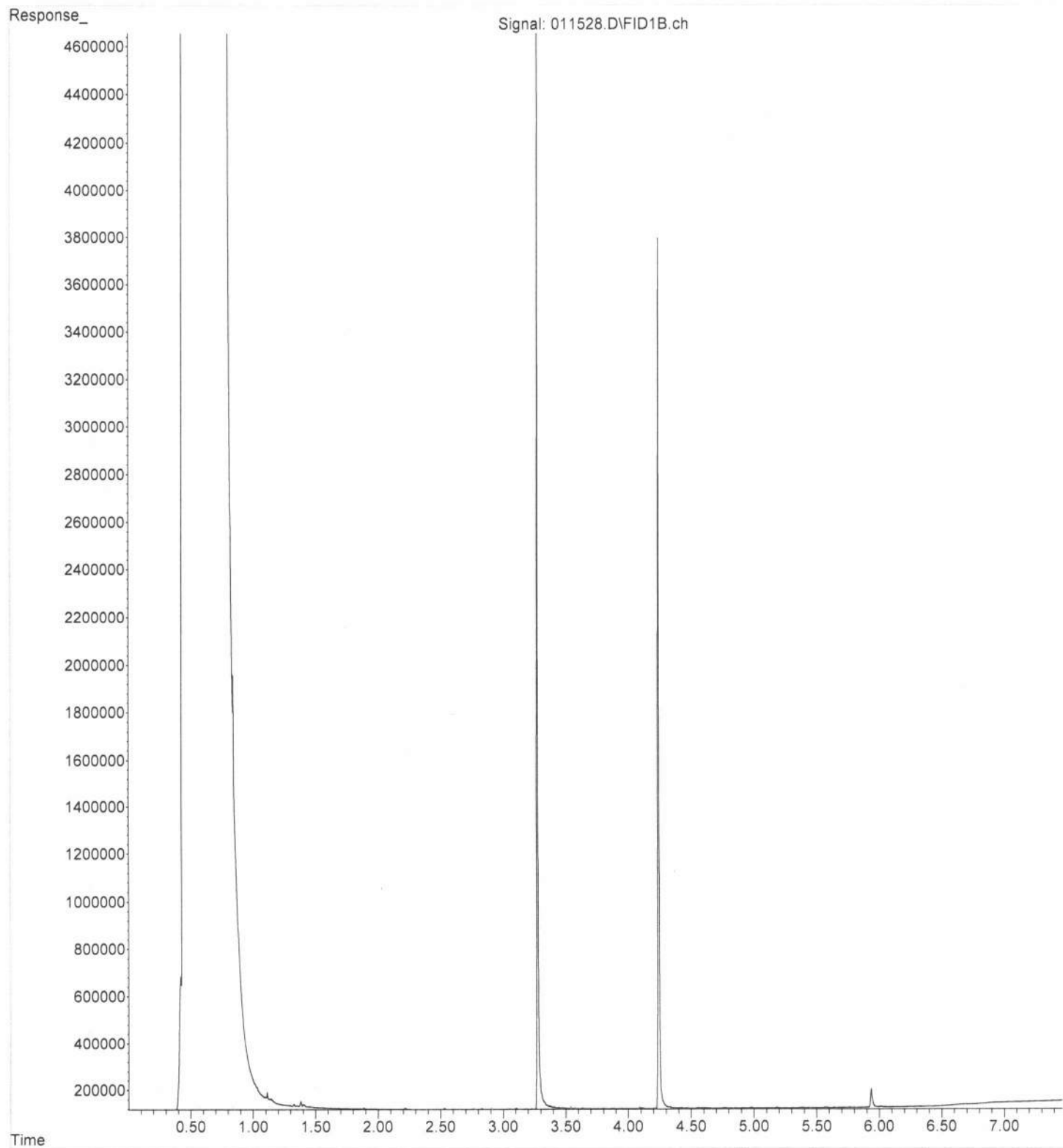
File : P:\Proc_GC13\01-15-24\011527.D
Operator : TL
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Instrument : GC13
Sample Name: 4011~~80~~-09
Misc Info : 87-01-16
Vial Number: 24

ERR



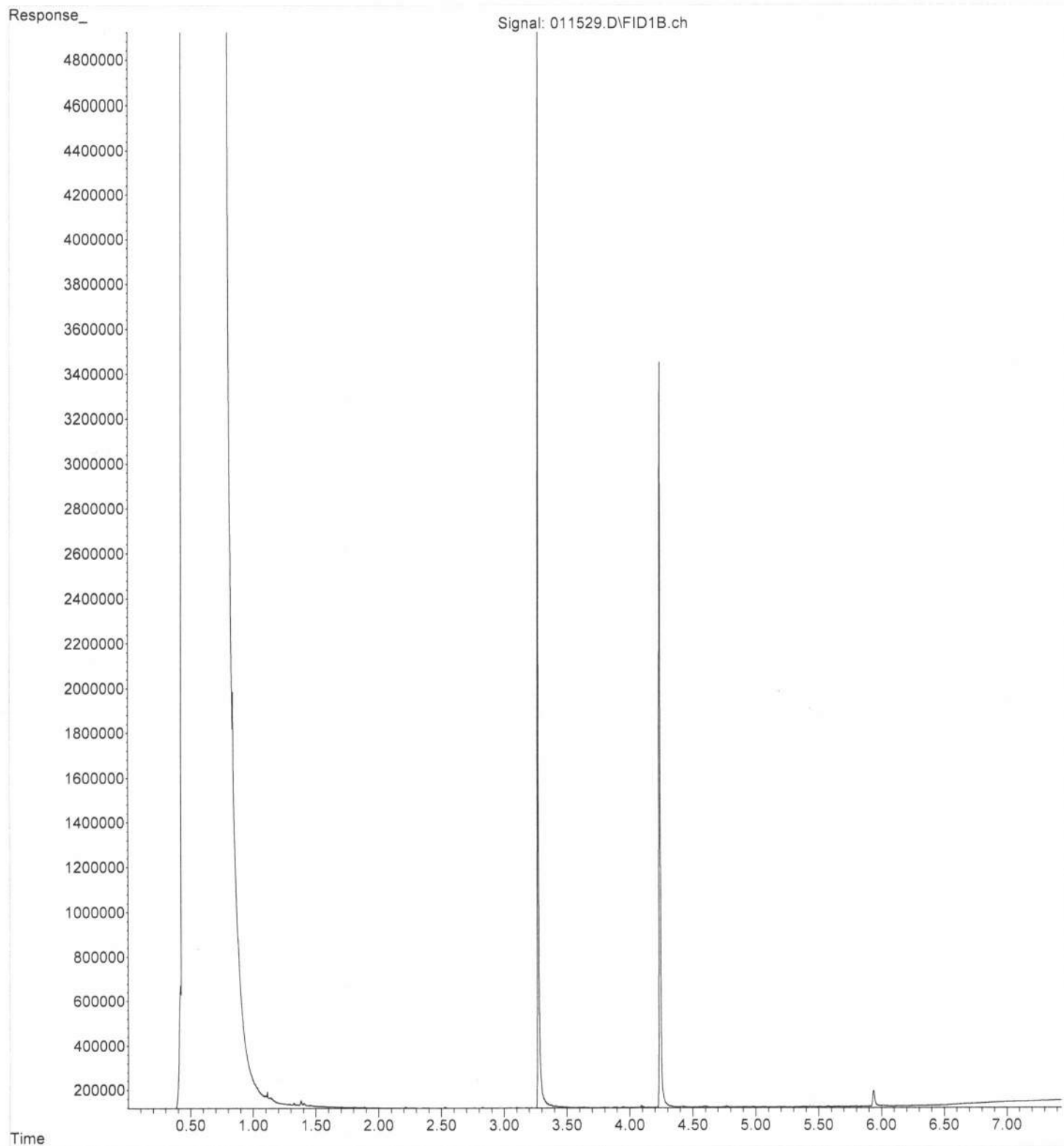
File : P:\Proc_GC13\01-15-24\011528.D
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Instrument : GC13
Sample Name: 401160-10
Misc Info : 8701.15
Vial Number: 25

ERR



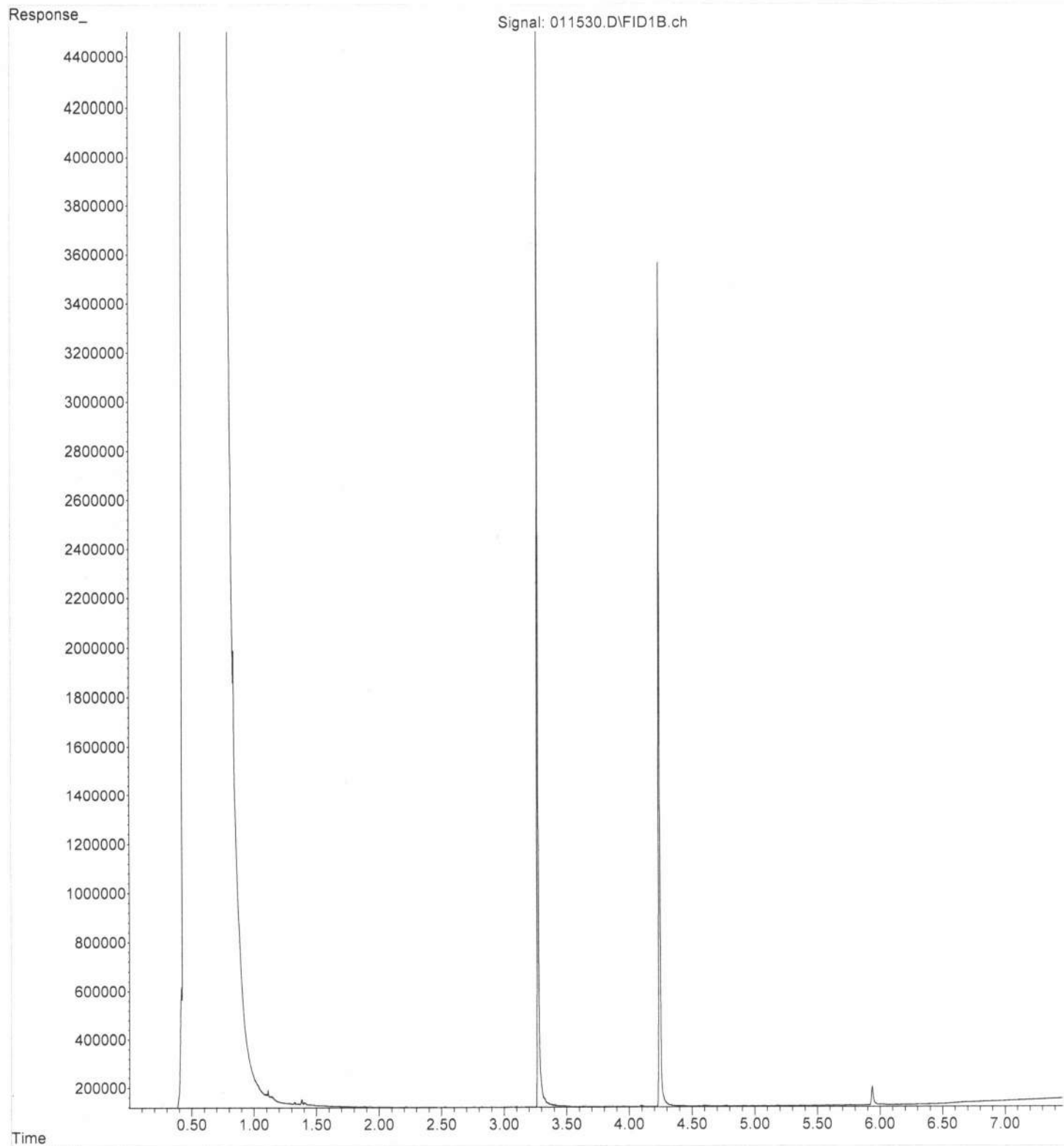
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Instrument : GC13
Sample Name: 401180-11
Misc Info : 8 Jan 16
Vial Number: 26

ERR



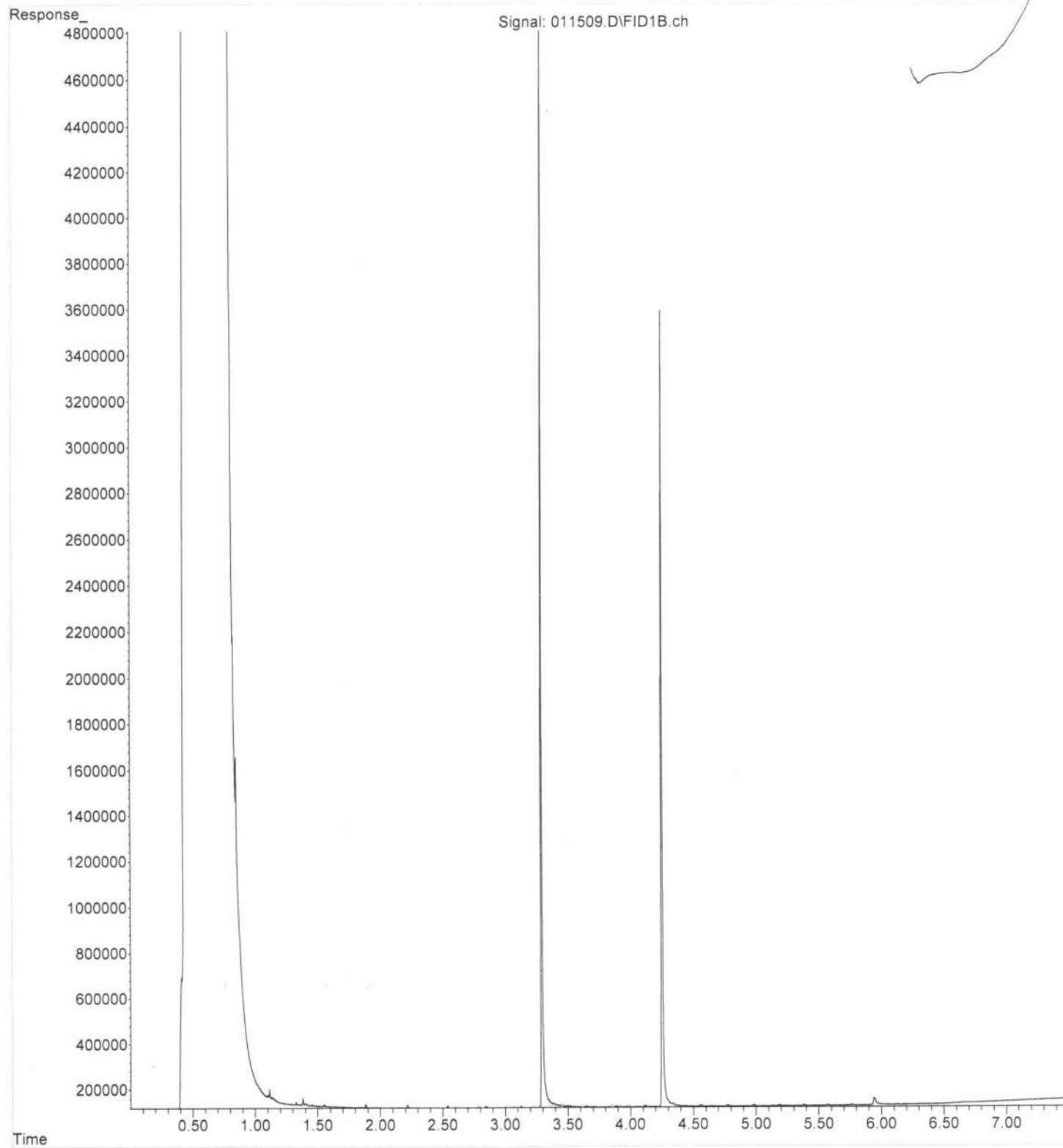
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Instrument : GC13
Sample Name: 401190-12
Misc Info : 8701.16
Vial Number: 27

ERR



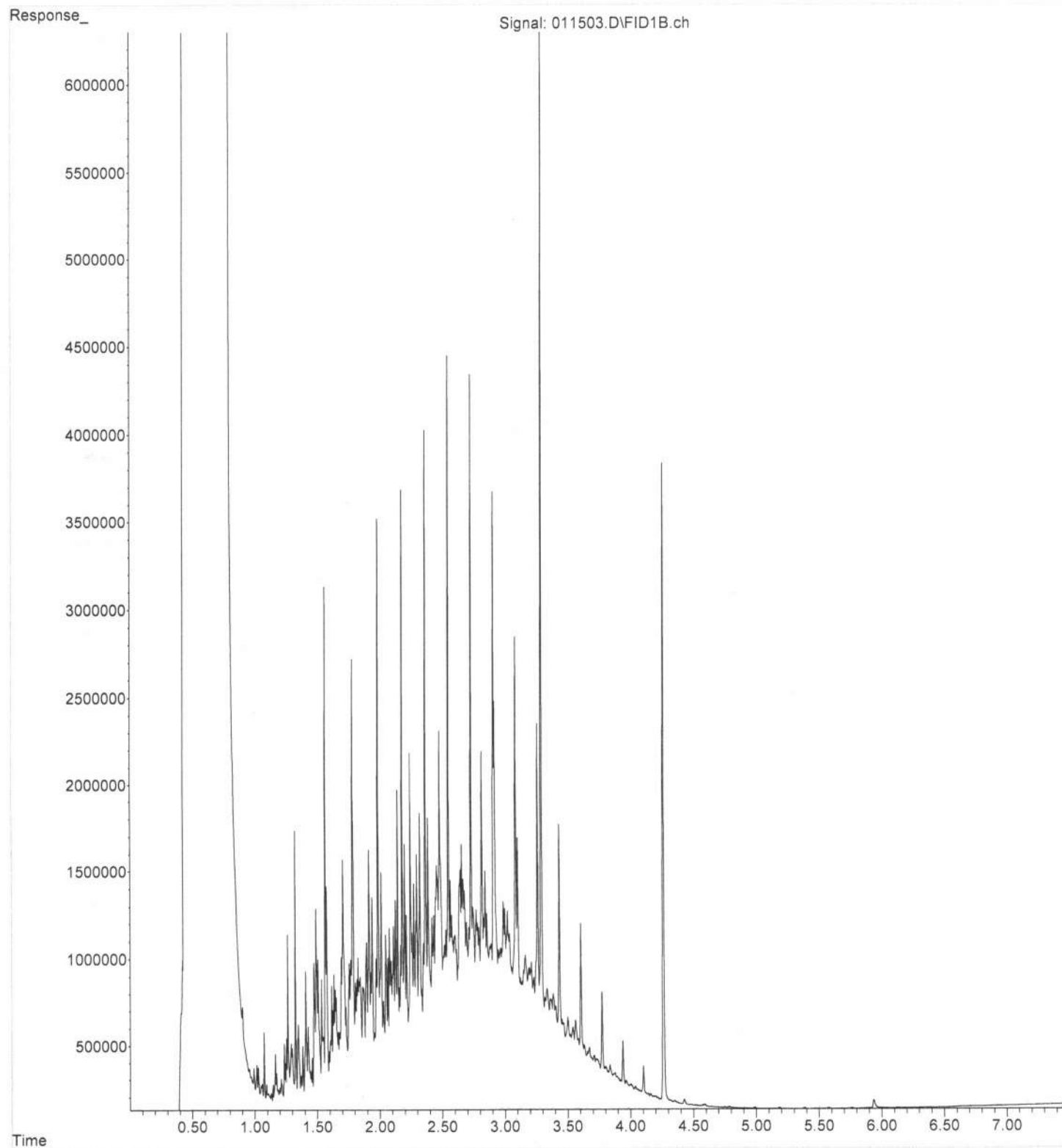
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Operator : TL
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Instrument : GC13
Sample Name: 04-145 mb
Misc Info :
Vial Number: 11

ERR



File : P:\Proc_GC13\01-15-24\011503.D
Operator : TL
Acquired : 15 Jan 2024 07:48 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR



Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401180
Work Order Number: 2401315

January 31, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/17/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



Date: 01/31/2024

CLIENT: Friedman & Bruya
Project: 401180
Work Order: 2401315

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2401315-001 | MW-19D-S2 | 01/10/2024 10:00 AM | 01/17/2024 10:53 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya
Project: 401180

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401180

Lab ID: 2401315-001

Collection Date: 1/10/2024 10:00:00 AM

Client Sample ID: MW-19D-S2

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42666

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|----|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 107 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C12-C16) | 28.2 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C16-C21) | 21.1 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aliphatic Hydrocarbon (C21-C34) | 91.3 | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 107 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 53.5 | D | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C12-C16) | 20.0 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C16-C21) | 52.0 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Aromatic Hydrocarbon (C21-C34) | 41.4 | 53.5 | DJ | mg/Kg-dry | 5 | 1/23/2024 5:29:47 PM |
| Surr: 1-Chlorooctadecane | 50.4 | 50 - 150 | D | %Rec | 5 | 1/23/2024 5:29:47 PM |
| Surr: o-Terphenyl | 67.2 | 50 - 150 | D | %Rec | 5 | 1/23/2024 5:29:47 PM |

NOTES:

Diluted due to matrix.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42713

Analyst: SG

| | | | | | | |
|---------------------------------|-------|----------|-----|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 0.460 | 0.997 | J | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 1.52 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 2.13 | 0.997 | Q+ | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 0.831 | 0.997 | Q-J | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 0.187 | 0.997 | JH | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1.29 | 0.997 | Q- | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1.44 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 1.44 | 0.997 | H | mg/Kg-dry | 1 | 1/26/2024 1:23:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 1.22 | 0.997 | Q- | mg/Kg-dry | 1 | 1/24/2024 8:00:00 PM |
| Surr: 2,5-dibromotoluene | 83.8 | 60 - 140 | H | %Rec | 1 | 1/26/2024 1:23:00 PM |
| Surr: 2,5-dibromotoluene | 67.3 | 60 - 140 | | %Rec | 1 | 1/24/2024 8:00:00 PM |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R89073

Analyst: ZD

| | | | | | | |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 7.55 | 0.500 | | wt% | 1 | 1/18/2024 8:20:25 AM |
|------------------|------|-------|--|-----|---|----------------------|

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42666 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
| Client ID: MBLKS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863392 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 50.9 | | 100.0 | | 50.9 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42666 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MBLKS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863399 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 72.1 | | 100.0 | | 72.1 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42666 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
| Client ID: LCSS | Batch ID: 42666 | | | | | Analysis Date: 1/23/2024 | | | SeqNo: 1863393 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 107 | 20.0 | 250.0 | 0 | 42.6 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 67.1 | 10.0 | 125.0 | 0 | 53.7 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 67.7 | 10.0 | 125.0 | 0 | 54.2 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 67.4 | 10.0 | 125.0 | 0 | 53.9 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 83.9 | 10.0 | 125.0 | 0 | 67.1 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 55.4 | | 100.0 | | 55.4 | 50 | 150 | | | | |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: LCS-42666 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: LCSS | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | SeqNo: 1863400 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 140 | 20.0 | 250.0 | 0 | 56.0 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 104 | 10.0 | 125.0 | 0 | 82.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 100 | 10.0 | 125.0 | 0 | 80.1 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 101 | 10.0 | 125.0 | 0 | 81.1 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 93.6 | 10.0 | 125.0 | 0 | 74.9 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 74.3 | | 100.0 | | 74.3 | 50 | 150 | | | | |

| Sample ID: 2401315-001AMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
|----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-19D-S2 | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | | SeqNo: 1863395 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 113 | 106 | 265.4 | 0 | 42.6 | 6.01 | 130 | | | | D |
| Aliphatic Hydrocarbon (C10-C12) | 65.6 | 53.1 | 132.7 | 0 | 49.4 | 11.6 | 127 | | | | D |
| Aliphatic Hydrocarbon (C12-C16) | 79.1 | 53.1 | 132.7 | 28.19 | 38.4 | 24.7 | 129 | | | | D |
| Aliphatic Hydrocarbon (C16-C21) | 76.0 | 53.1 | 132.7 | 21.13 | 41.3 | 25.5 | 132 | | | | D |
| Aliphatic Hydrocarbon (C21-C34) | 138 | 53.1 | 132.7 | 91.32 | 35.4 | 21.4 | 138 | | | | D |
| Surr: 1-Chlorooctadecane | 46.4 | | 106.2 | | 43.7 | 50 | 150 | | | | DS |

NOTES:

S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed and recovered within range.
 Diluted due to matrix.

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MW-19D-S2 | | Batch ID: 42666 | | Analysis Date: 1/23/2024 | | | | | SeqNo: 1863402 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 139 | 106 | 265.4 | 0 | 52.5 | 12.6 | 130 | | | | D |
| Aromatic Hydrocarbon (C10-C12) | 97.9 | 53.1 | 132.7 | 0 | 73.8 | 26.3 | 130 | | | | D |
| Aromatic Hydrocarbon (C12-C16) | 109 | 53.1 | 132.7 | 20.01 | 67.0 | 23.3 | 139 | | | | D |
| Aromatic Hydrocarbon (C16-C21) | 145 | 53.1 | 132.7 | 52.00 | 70.1 | 32.2 | 131 | | | | D |
| Aromatic Hydrocarbon (C21-C34) | 152 | 53.1 | 132.7 | 41.41 | 83.1 | 35.8 | 139 | | | | D |
| Surr: o-Terphenyl | 75.7 | | 106.2 | | 71.3 | 50 | 150 | | | | D |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2401315-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/19/2024 | | RunNo: 89212 | | | |
| Client ID: MW-19D-S2 | | Batch ID: 42666 | | | | Analysis Date: 1/23/2024 | | SeqNo: 1863402 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

NOTES:

Diluted due to matrix.

| Sample ID: 2401315-001AMSD | SampType: MSD | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89211 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MW-19D-S2 | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | | SeqNo: 1863396 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 123 | 103 | 256.6 | 0 | 47.8 | 6.01 | 130 | 113.1 | 8.22 | 30 | D |
| Aliphatic Hydrocarbon (C10-C12) | 70.3 | 51.3 | 128.3 | 0 | 54.8 | 11.6 | 127 | 65.60 | 6.91 | 30 | D |
| Aliphatic Hydrocarbon (C12-C16) | 87.5 | 51.3 | 128.3 | 28.19 | 46.2 | 24.7 | 129 | 79.14 | 10.0 | 30 | D |
| Aliphatic Hydrocarbon (C16-C21) | 93.5 | 51.3 | 128.3 | 21.13 | 56.4 | 25.5 | 132 | 75.95 | 20.8 | 30 | D |
| Aliphatic Hydrocarbon (C21-C34) | 164 | 51.3 | 128.3 | 91.32 | 56.9 | 21.4 | 138 | 138.3 | 17.2 | 30 | D |
| Surr: 1-Chlorooctadecane | 51.6 | | 102.6 | | 50.2 | 50 | 150 | | 0 | | D |

NOTES:

Diluted due to matrix.

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001AMSD | SampType: MSD | Units: mg/Kg-dry | | | | Prep Date: 1/19/2024 | | | RunNo: 89212 | | |
| Client ID: MW-19D-S2 | Batch ID: 42666 | Analysis Date: 1/23/2024 | | | | | | | SeqNo: 1863403 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 145 | 103 | 256.6 | 0 | 56.4 | 12.6 | 130 | 139.2 | 3.83 | 30 | D |
| Aromatic Hydrocarbon (C10-C12) | 95.1 | 51.3 | 128.3 | 0 | 74.1 | 26.3 | 130 | 97.87 | 2.89 | 30 | D |
| Aromatic Hydrocarbon (C12-C16) | 99.1 | 51.3 | 128.3 | 20.01 | 61.6 | 23.3 | 139 | 109.0 | 9.50 | 30 | D |
| Aromatic Hydrocarbon (C16-C21) | 121 | 51.3 | 128.3 | 52.00 | 54.0 | 32.2 | 131 | 145.0 | 17.8 | 30 | D |
| Aromatic Hydrocarbon (C21-C34) | 182 | 51.3 | 128.3 | 41.41 | 109 | 35.8 | 139 | 151.6 | 18.1 | 30 | D |
| Surr: o-Terphenyl | 68.1 | | 102.6 | | 66.4 | 50 | 150 | | 0 | | D |

NOTES:

Diluted due to matrix.

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42713 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865040 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 20.5 | 2.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 12.9 | 2.50 | 10.00 | 0 | 129 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 20.3 | 2.50 | 10.00 | 0 | 203 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C10-C12) | 13.1 | 2.50 | 10.00 | 0 | 131 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C8-C10) | 34.9 | 2.50 | 50.00 | 0 | 69.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C10-C12) | 6.27 | 2.50 | 10.00 | 0 | 62.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 6.22 | 2.50 | 10.00 | 0 | 62.2 | 70 | 130 | | | | S |
| Surr: 2,5-dibromotoluene | 2.02 | | 2.500 | | 81.0 | 60 | 140 | | | | |

| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865036 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 0.989 | 2.50 | | 0 | 0 | | | | | | J |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | 1.30 | 2.50 | | 0 | 0 | | | | | | J |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.75 | | 2.500 | | 70.0 | 60 | 140 | | | | |

| Sample ID: 2401315-001BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-19D-S2 | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | 0 | 0 | | | 0 | 0 | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 0.997 | | 0 | 0 | | | 0.4596 | 200 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | 0 | 0 | | | 0 | 0 | 25 | |
| Aliphatic Hydrocarbon (C10-C12) | 2.21 | 0.997 | | 0 | 0 | | | 2.132 | 3.80 | 25 | Q+ |
| Aromatic Hydrocarbon (C8-C10) | 1.16 | 0.997 | | 0 | 0 | | | 0.8308 | 32.7 | 25 | BQ- |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401315-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89314 | | |
| Client ID: MW-19D-S2 | Batch ID: 42713 | Analysis Date: 1/24/2024 | | | | | | | SeqNo: 1865038 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 1.17 | 0.997 | | 0 | 0 | | | 1.288 | 9.87 | 25 | Q- |
| Aromatic Hydrocarbon (C12-C13) | 1.35 | 0.997 | | 0 | 0 | | | 1.219 | 10.2 | 25 | Q- |
| Surr: 2,5-dibromotoluene | 0.657 | | 0.9971 | | 65.9 | 60 | 140 | | 0 | 0 | |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: LCS-42713 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: LCSS | Batch ID: 42713 | Analysis Date: 1/25/2024 | | | | | | | SeqNo: 1865012 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 17.9 | 2.50 | 20.00 | 0 | 89.3 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 2.50 | 10.00 | 0 | 112 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 12.0 | 2.50 | 10.00 | 0 | 120 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.7 | 2.50 | 10.00 | 0 | 107 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 52.3 | 2.50 | 50.00 | 0 | 105 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.2 | 2.50 | 10.00 | 0 | 102 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.60 | | 2.500 | | 104 | 60 | 140 | | | | |

| Sample ID: MB-42713 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MBLKS | Batch ID: 42713 | Analysis Date: 1/26/2024 | | | | | | | SeqNo: 1864974 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.83 | | 2.500 | | 73.3 | 60 | 140 | | | | |

Work Order: 2401315
CLIENT: Friedman & Bruya
Project: 401180

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
| Client ID: MBLKS | | Batch ID: 42713 | | Analysis Date: 1/26/2024 | | | | | | SeqNo: 1864974 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42713 | Analysis Date: 1/26/2024 | | | | | | | SeqNo: 1864986 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | 0 | 0 | | | 0.4976 | 200 | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | 24.9 | 1.40 | | 0 | 0 | | | 22.74 | 9.25 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | 33.5 | 1.40 | | 0 | 0 | | | 33.57 | 0.230 | 25 | |
| Aromatic Hydrocarbon (C8-C10) | 44.7 | 1.40 | | 0 | 0 | | | 44.93 | 0.405 | 25 | |
| Aromatic Hydrocarbon (C12-C13) | 19.2 | 1.40 | | 0 | 0 | | | 18.77 | 2.48 | 25 | |
| Surr: 2,5-dibromotoluene | 1.49 | | 1.401 | | 106 | 60 | 140 | | 0 | 0 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401315
 Date Received: 1/17/2024 10:53:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
 MeOH ☐
 NA ☒
 10. Is there headspace in the VOA vials? Yes ☐ No ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2401315

TURNAROUND TIME

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME

☒ Standard TAT

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Page 13 of 13

[illegible]

Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 9, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 22, 2024 from the Whidbey Marine 0204475-001, F&BI 401269 project. There are 72 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0209R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 22, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 401269 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401269 -01 | MW-20D-S6 |
| 401269 -02 | MW-21D-S1 |
| 401269 -03 | MW-21D-S2 |
| 401269 -04 | MW-21D-S3 |
| 401269 -05 | MW-21D-S4 |
| 401269 -06 | MW-21D-S5 |
| 401269 -07 | MW-21D-S6 |
| 401269 -08 | MW-21D-S7 |
| 401269 -09 | MW-22D-S1 |
| 401269 -10 | MW-22D-S2 |
| 401269 -11 | MW-22D-S3 |
| 401269 -12 | MW-22D-S4 |
| 401269 -13 | MW-22D-S5 |
| 401269 -14 | MW-22D-S6 |
| 401269 -15 | MW-22D-S7 |
| 401269 -16 | MW-22D-S8 |
| 401269 -17 | MW-23D-S1 |
| 401269 -18 | MW-23D-S2 |
| 401269 -19 | MW-22D-Grab |

Samples MW-21D-S2, MW-21D-S4, MW-21D-S7, and MW-23D-S2 were sent to Fremont Analytical for total organic carbon analysis. In addition, sample MW-21D-S7 was sent to Fremont for EPH and VPH analyses. The reports are enclosed.

The 8260D dichlorodifluoromethane calibration standard did not meet the acceptance criteria for several compounds. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: NA

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-20D-S6 401269-01 | 6 |
| MW-21D-S1 401269-02 | 12 |
| MW-21D-S2 401269-03 | 9 |
| MW-21D-S3 401269-04 | 11 |
| MW-21D-S4 401269-05 | 11 |
| MW-21D-S5 401269-06 | 8 |
| MW-21D-S6 401269-07 | 4 |
| MW-21D-S7 401269-08 | 17 |
| MW-22D-S1 401269-09 | 3 |
| MW-22D-S2 401269-10 | 9 |
| MW-22D-S4 401269-12 | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: NA

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| MW-22D-S5 401269-13 | 21 |
| MW-22D-S8 401269-16 | 17 |
| MW-23D-S1 401269-17 | 4 |
| MW-23D-S2 401269-18 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-20D-S6 401269-01 | <5 | 118 |
| MW-21D-S1 401269-02 | <5 | 115 |
| MW-21D-S2 401269-03 | <5 | 109 |
| MW-21D-S3 401269-04 | <5 | 117 |
| MW-21D-S4 401269-05 | <5 | 117 |
| MW-21D-S5 401269-06 | <5 | 119 |
| MW-21D-S7 401269-08 1/20 | 1,200 | ip |
| MW-22D-S1 401269-09 | <5 | 125 |
| MW-22D-S2 401269-10 | <5 | 114 |
| MW-22D-S4 401269-12 | <5 | 117 |
| MW-22D-S5 401269-13 | <5 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------|-----------------------|---|
| Laboratory ID | | |
| MW-22D-S8 401269-16 | 14 | 121 |
| MW-23D-S1 401269-17 | <5 | 125 |
| MW-23D-S2 401269-18 | <5 | 117 |
| Method Blank 04-0026 MB2 | <5 | 122 |
| Method Blank 04-0028 MB | <5 | 116 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-21D-S6 401269-07 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 93 |
| Method Blank 04-0026 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 103 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/24/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-22D-Grab 401269-19 | <1 | 6.1 | <1 | <3 | <100 | 74 |
| Method Blank 04-0027 MB | <1 | <1 | <1 | <3 | <100 | 70 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) (Limit 50-150) |
| MW-20D-S6 401269-01 | <50 | <250 | 107 |
| MW-21D-S1 401269-02 | <50 | <250 | 107 |
| MW-21D-S2 401269-03 | <50 | <250 | 105 |
| MW-21D-S3 401269-04 | <50 | <250 | 102 |
| MW-21D-S4 401269-05 | <50 | <250 | 104 |
| MW-21D-S5 401269-06 | <50 | <250 | 107 |
| MW-21D-S6 401269-07 | <50 | <250 | 107 |
| MW-21D-S7 401269-08 | 990 x | <250 | 117 |
| MW-22D-S1 401269-09 | <50 | <250 | 110 |
| MW-22D-S2 401269-10 | <50 | <250 | 105 |
| MW-22D-S4 401269-12 | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/23/24

Date Analyzed: 01/23/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-22D-S5 | <50 | <250 | 108 |
| 401269-13 | | | |
| MW-22D-S8 | <50 | <250 | 109 |
| 401269-16 | | | |
| MW-23D-S1 | <50 | <250 | 108 |
| 401269-17 | | | |
| MW-23D-S2 | <50 | <250 | 111 |
| 401269-18 | | | |
| Method Blank | <50 | <250 | 108 |
| 04-174 MB | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/24/24

Date Analyzed: 01/24/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-22D-Grab | 250 x | <250 | 83 |
| 401269-19 | | | |
| Method Blank | <50 | <250 | 92 |
| 04-175 MB | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-20D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-01 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-01.146 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.02 |
| Lead | 2.07 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-02 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-02.182 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.54 |
| Lead | 1.33 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-03 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-03.183 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.34 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-04 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-04.184 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.61 |
| Lead | 2.05 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-05 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-05.185 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.27 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-06 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-06.186 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.99 |
| Lead | 1.58 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-08.187 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.89 |
| Lead | 5.75 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-09 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-09.203 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.63 |
| Lead | 1.15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-10 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-10.204 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.84 |
| Lead | 1.51 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-12 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-12.205 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.03 |
| Lead | 2.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-13 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-13.206 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 7.55 |
| Lead | 4.60 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-16 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-16.207 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.91 |
| Lead | 1.60 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-17 |
| Date Analyzed: | 01/23/24 | Data File: | 401269-17.208 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.42 |
| Lead | 1.18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-18 |
| Date Analyzed: | 01/24/24 | Data File: | 401269-18.209 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.58 |
| Lead | 1.31 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | I4-56 mb |
| Date Analyzed: | 01/23/24 | Data File: | I4-56 mb.142 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-20D-S6 | Client: Haley & Aldrich, Inc |
| Date Received: 01/22/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/23/24 | Lab ID: 401269-01 1/0.5 |
| Date Analyzed: 01/23/24 | Data File: 012311.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 99 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-02 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012312.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.015 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-03 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012313.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 84 | 120 |
| Toluene-d8 | 99 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0092 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-04 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012314.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.019 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-05 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012315.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.042 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-06 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012316.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.022 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012317.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 84 | 120 |
| Toluene-d8 | 119 | 73 | 128 |
| 4-Bromofluorobenzene | 120 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.27 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 1.3 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 5.8 |
| Hexane | 1.7 | o-Xylene | 1.8 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | 0.55 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 2.7 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 8.5 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 19 ve |
| Benzene | <0.001 | sec-Butylbenzene | 0.39 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | 0.34 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.003 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 3.5 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-08 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012430.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 84 | 120 |
| Toluene-d8 | 108 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| 1,3,5-Trimethylbenzene | 9.0 |
| 1,2,4-Trimethylbenzene | 23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: MW-22D-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/22/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/23/24 | Lab ID: 401269-09 1/0.5 |
| Date Analyzed: 01/24/24 | Data File: 012415.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 102 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.018 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 k | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 ca |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-10 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012319.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 90 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.011 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-12 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012320.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0024 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-13 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012321.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-16 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012322.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 84 | 120 |
| Toluene-d8 | 106 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.69 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 2.4 |
| Hexane | <0.25 | o-Xylene | 0.81 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.061 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.13 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.42 |
| Benzene | 0.0040 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.13 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.22 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-17 1/0.5 |
| Date Analyzed: | 01/24/24 | Data File: | 012414.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 84 | 120 |
| Toluene-d8 | 95 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0048 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 k | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 ca |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 401269-18 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012324.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0036 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/23/24 | Lab ID: | 04-0117 mb 1/0.5 |
| Date Analyzed: | 01/23/24 | Data File: | 012309.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 84 | 120 |
| Toluene-d8 | 97 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 k | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-Grab | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/25/24 | Lab ID: | 401269-19 |
| Date Analyzed: | 01/25/24 | Data File: | 012512.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 112 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/25/24 | Lab ID: | 04-0125 mb |
| Date Analyzed: | 01/25/24 | Data File: | 012508.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-20D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-01 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012411.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 65 | 11 | 158 |
| Terphenyl-d14 | 87 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-02 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012412.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 80 | 45 | 117 |
| 2,4,6-Tribromophenol | 62 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-03 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012413.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 80 | 45 | 117 |
| 2,4,6-Tribromophenol | 65 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-04 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012414.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 73 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 69 | 11 | 158 |
| Terphenyl-d14 | 83 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-05 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012415.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 68 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-06 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012416.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 10 | 198 |
| 2-Fluorobiphenyl | 73 | 45 | 117 |
| 2,4,6-Tribromophenol | 64 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-08 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012417.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 97 | 10 | 198 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 6.5 ve |
| 2-Methylnaphthalene | 16 ve |
| 1-Methylnaphthalene | 5.8 |
| Acenaphthylene | <0.01 |
| Acenaphthene | 0.014 |
| Fluorene | 0.053 |
| Phenanthrene | 0.088 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | 0.020 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-21D-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-08 1/50 |
| Date Analyzed: | 01/25/24 | Data File: | 012515.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 92 d | 10 | 198 |
| 2-Fluorobiphenyl | 81 d | 45 | 117 |
| 2,4,6-Tribromophenol | 65 d | 11 | 158 |
| Terphenyl-d14 | 80 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| Naphthalene | 7.6 |
| 2-Methylnaphthalene | 16 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-09 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012418.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 63 | 10 | 198 |
| 2-Fluorobiphenyl | 77 | 45 | 117 |
| 2,4,6-Tribromophenol | 74 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-10 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012419.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 65 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 67 | 11 | 158 |
| Terphenyl-d14 | 85 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-12 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012420.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 62 | 10 | 198 |
| 2-Fluorobiphenyl | 75 | 45 | 117 |
| 2,4,6-Tribromophenol | 68 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-13 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012421.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 70 | 11 | 158 |
| Terphenyl-d14 | 82 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-22D-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-16 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012422.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 70 | 10 | 198 |
| 2-Fluorobiphenyl | 83 | 45 | 117 |
| 2,4,6-Tribromophenol | 75 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.030 |
| 2-Methylnaphthalene | 0.032 |
| 1-Methylnaphthalene | 0.012 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-17 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012423.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 | 10 | 198 |
| 2-Fluorobiphenyl | 74 | 45 | 117 |
| 2,4,6-Tribromophenol | 72 | 11 | 158 |
| Terphenyl-d14 | 89 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/22/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 401269-18 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012424.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 10 | 198 |
| 2-Fluorobiphenyl | 81 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 86 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/24/24 | Lab ID: | 04-0177 mb 1/5 |
| Date Analyzed: | 01/24/24 | Data File: | 012410.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 10 | 198 |
| 2-Fluorobiphenyl | 93 | 45 | 117 |
| 2,4,6-Tribromophenol | 74 | 11 | 158 |
| Terphenyl-d14 | 98 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

Date Extracted: 01/26/24

Date Analyzed: 01/29/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-22D-Grab 401269-19 | 710 |
| Method Blank I4-0062MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401253-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 91 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 97 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 95 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401268-11 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 85 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 85 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 87 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 90 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401285-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 86 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 84 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 88 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 97 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401269-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 104 | 104 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 100 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 100 | 100 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401269-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | 3.78 | 96 b | 102 b | 75-125 | 6 b |
| Lead | mg/kg (ppm) | 50 | 1.94 | 85 | 89 | 75-125 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 96 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401269-06 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 67 | 65 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 88 | 90 | 10-126 | 2 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 92 | 89 | 10-138 | 3 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 81 | 78 | 10-163 | 4 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 82 | 77 | 10-176 | 6 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 89 | 87 | 10-176 | 2 |
| Acetone | mg/kg (ppm) | 10 | <5 | 83 | 88 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 96 | 94 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 92 | 92 | 10-137 | 0 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 89 | 89 | 10-156 | 0 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 98 | 94 | 21-145 | 4 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 94 | 90 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 96 | 96 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 94 | 91 | 10-158 | 3 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 94 | 94 | 25-135 | 0 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 97 | 94 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 100 | 98 | 19-147 | 2 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 97 | 96 | 10-156 | 1 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 97 | 95 | 17-140 | 2 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 102 | 97 | 9-164 | 5 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 95 | 92 | 29-129 | 3 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 95 | 92 | 21-139 | 3 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 99 | 95 | 30-135 | 4 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 23-155 | 2 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 95 | 91 | 23-145 | 4 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 97 | 97 | 24-155 | 0 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 102 | 100 | 28-144 | 2 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 107 | 103 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 110 | 107 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 102 | 101 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 108 | 102 | 31-137 | 6 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 104 | 101 | 20-133 | 3 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 109 | 107 | 28-150 | 2 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 99 | 32-129 | 6 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 101 | 32-137 | 3 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 99 | 31-143 | 4 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 104 | 100 | 34-136 | 4 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 105 | 99 | 33-134 | 6 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 100 | 31-142 | 4 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 112 | 108 | 21-156 | 4 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 104 | 23-146 | 2 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 107 | 34-130 | 1 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 106 | 18-149 | 3 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 104 | 28-140 | 1 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 104 | 107 | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 101 | 103 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 31-136 | 1 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 101 | 30-137 | 1 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 10-182 | 3 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 106 | 23-145 | 4 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 106 | 21-149 | 3 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 102 | 30-131 | 1 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 99 | 103 | 29-129 | 4 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 99 | 102 | 31-132 | 3 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 105 | 104 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 104 | 106 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 109 | 116 | 10-142 | 6 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 99 | 102 | 14-157 | 3 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 102 | 106 | 20-144 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|----------------------|---------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 82 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 103 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 99 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 76 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 71 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 94 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 98 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 104 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 101 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 92 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 101 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 99 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 84 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 99 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 99 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 110 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 104 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 94 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 99 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 102 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 98 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 97 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 101 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 103 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 98 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 105 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 104 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 101 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 105 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 108 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 105 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 104 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 105 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 102 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 103 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 103 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 102 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 103 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 102 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 106 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 101 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 111 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 109 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 108 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 116 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 106 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 106 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 104 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 107 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 105 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 112 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 104 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 105 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401274-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|--------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 97 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 98 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 95 | 10-211 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 110 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 96 | 35-149 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 101 | 64-142 | 1 |
| Chloroethane | ug/L (ppb) | 10 | 99 | 101 | 70-130 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 93 | 94 | 64-140 | 1 |
| Methylene chloride | ug/L (ppb) | 10 | 92 | 99 | 43-134 | 7 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 94 | 98 | 70-130 | 4 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 100 | 70-130 | 4 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 103 | 107 | 70-130 | 4 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 98 | 100 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| Tetrachloroethene | ug/L (ppb) | 10 | 100 | 102 | 70-130 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401269-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 84 | 28-125 | 7 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 10-192 | 7 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 86 | 10-163 | 8 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 90 | 45-128 | 6 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 87 | 36-125 | 6 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 48-121 | 7 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 82 | 89 | 46-122 | 8 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 91 | 30-144 | 7 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 92 | 50-150 | 9 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 87 | 40-134 | 2 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 90 | 50-150 | 7 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 95 | 50-150 | 5 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 95 | 99 | 50-150 | 4 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 92 | 50-150 | 4 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 98 | 50-150 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 94 | 100 | 40-140 | 6 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 98 | 41-136 | 6 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 93 | 29-139 | 6 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 91 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 98 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 93 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 95 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 99 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 98 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 102 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 92 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 103 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 111 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 102 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 111 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 108 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 105 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/09/24

Date Received: 01/22/24

Project: Whidbey Marine 0204475-001, F&BI 401269

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 102 | 104 | 35-146 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

401269
Report To H. Good, V. Pehlivan
Company HA
Address _____
City, State, ZIP _____
Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY 01/22/24

C2/VW2/N3
Page # 1 of 2

| | |
|--|----------------------------|
| SAMPLERS (signature) <u>[Signature]</u> | |
| PROJECT NAME <u>Whitby Marine</u> | PO # <u>0204475-001</u> |
| REMARKS Print C-Grams Project specific RLs? - Yes / No | INVOICE TO |

| | |
|--|---|
| TURNAROUND TIME <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____ | SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days |
|--|---|

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | A-per HG 01/24/24 ME Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---------------|-------|----------|-----|-------------|----------------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | As+Pb | EDB, GPC | TOC | EPH and VPH | |
| MW-20D-56 | 01A-F | 1/15/24 | 1235 | Soil | 6 | X | X | | | X | X | | X | X | | | Hold for other |
| MW-21D-51 | 02 | 1/16/24 | 0940 | | 1 | X | X | | | X | X | | X | X | | | analysis |
| MW-21D-52 | 03 | | 1050 | | | X | X | | | X | X | | X | X | X | | |
| MW-21D-53 | 04 | | 0950 | | | X | X | | | X | X | | X | X | | | |
| MW-21D-54 | 05 | | 1030 | | | X | X | | | X | X | | X | X | X | | |
| MW-21D-55 | 06 | | 1100 | | | X | X | | | X | X | | X | X | | | |
| MW-21D-56 | 07 | | 1140 | | | X | X | X | | | | | | | | | |
| MW-21D-57 | 08 | ✓ | 1430 | | | X | X | | | X | X | | X | X | X | A | |
| MW-22D-51 | 09 | 1/17/24 | 1330 | ✓ | 1 | X | X | | | X | X | | X | X | | | |
| MW-22D-52 | 10 | ✓ | 1340 | ✓ | 1 | X | X | | | X | X | | X | X | | | ✓ |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|---------------------------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/24/24</u> | <u>0745</u> |
| Received by: <u>[Signature]</u> | <u>VIN H</u> | <u>FR1</u> | <u>1-22-24</u> | <u>1320</u> |
| Relinquished by: | | Samples received at <u>4</u> °C | | |
| Received by: | | | | |

401269

SAMPLE CHAIN OF CUSTODY

01/22/24

C2/VW2/V3

Report To _____

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) 

PROJECT NAME

Whidbey Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____


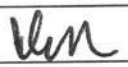
SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | A-per HG 01/22/24 ME Notes | | |
|-------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|--------------|-------|---------------|-----|----------------------------------|--|---------------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | TSS EPA 8092 | A54P6 | EP8, EP1, EP2 | TOC | 2VOCs | | |
| MW-22D-53 | 11 A-F | 1/17/24 | 1435 | soil | 6 | | | | | | | | | | | | | Hold for |
| MW-22D-54 | 12 | | 1500 | | | x | x | | | x | x | | x | x | | | | other analysis |
| MW-22D-55 | 13 | | 1530 | | | x | x | | | x | x | | x | x | | | | |
| MW-22D-56 | 14 | 1/18/24 | 1700 | | | | | | | | | | | | | | | |
| MW-22D-57 | 15 | 1/19/24 | 0920 | | | | | | | | | | | | | | | |
| MW-22D-58 | 16 A-E | | 0950 | | | x | x | | | x | x | | x | x | | | | |
| MW-23D-51 | 17 A-F | 1/19/24 | 1500 | | | x | x | | | x | x | | x | x | | | | |
| MW-23D-52 | 18 | | 1505 | | | x | x | | | x | x | | x | x | A | | | |
| MW-22D-Grab | 19 A-H | 1/18/24 | 1130 | water | 48 | x | x | x | | | | x | | | | x | | Label MW-22B-Grab GW (APD) 1/22 |
| | | | | | | | | | | | | | | | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------------------------------|---------|------|
| Relinquished by:  | Andrew Nalcabam | HA | 1/22/24 | 0745 |
| Received by:  | VINA | FB1 | 1-22-24 | 1320 |
| Relinquished by: | | Samples received at <u>4</u> °C | | |
| Received by: | | | | |



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401469

February 07, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/24/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH

Sample Moisture (Percent Moisture)

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 02/07/2024

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401469

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401469-001 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/24/2024 4:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2401469**
Date Reported: **2/7/2024**

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401469-001

Collection Date: 1/16/2024 2:30:00 PM

Client Sample ID: MW-21D-S7

Matrix: Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42747

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | 27.5 | 23.1 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C10-C12) | 80.4 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C12-C16) | 54.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C8-C10) | 23.8 | 23.1 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C10-C12) | 91.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C12-C16) | 102 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C16-C21) | 20.8 | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.5 | | mg/Kg-dry | 1 | 2/5/2024 12:17:30 PM |
| Surr: 1-Chlorooctadecane | 51.8 | 50 - 150 | | %Rec | 1 | 2/5/2024 12:17:30 PM |
| Surr: o-Terphenyl | 79.9 | 50 - 150 | | %Rec | 1 | 2/5/2024 12:17:30 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42713

Analyst: SG

| | | | | | | |
|---------------------------------|------|----------|----|-----------|----|-----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 22.7 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 33.6 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 47.6 | 14.0 | DH | mg/Kg-dry | 10 | 1/31/2024 10:00:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 44.9 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 29.0 | 14.0 | DH | mg/Kg-dry | 10 | 1/31/2024 10:00:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 18.8 | 1.40 | | mg/Kg-dry | 1 | 1/26/2024 1:59:00 PM |
| Surr: 2,5-dibromotoluene | 110 | 60 - 140 | | %Rec | 1 | 1/26/2024 1:59:00 PM |

Sample Moisture (Percent Moisture)

Batch ID: R89195

Analyst: YL

| | | | | | | |
|------------------|------|-------|--|-----|---|----------------------|
| Percent Moisture | 13.4 | 0.500 | | wt% | 1 | 1/25/2024 9:31:14 AM |
|------------------|------|-------|--|-----|---|----------------------|

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: MB-42747 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867980 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 59.5 | | 100.0 | | 59.5 | 50 | 150 | | | | |

| Sample ID: MB-42747 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867987 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 74.8 | | 100.0 | | 74.8 | 50 | 150 | | | | |

| Sample ID: LCS-42747 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867981 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 108 | 20.0 | 250.0 | 0 | 43.1 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 69.3 | 10.0 | 125.0 | 0 | 55.5 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 72.5 | 10.0 | 125.0 | 0 | 58.0 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 72.3 | 10.0 | 125.0 | 0 | 57.8 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 89.7 | 10.0 | 125.0 | 0 | 71.8 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 59.3 | | 100.0 | | 59.3 | 50 | 150 | | | | |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: LCS-42747 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867988 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 160 | 20.0 | 250.0 | 0 | 63.9 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 109 | 10.0 | 125.0 | 0 | 86.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 114 | 10.0 | 125.0 | 0 | 91.3 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 117 | 10.0 | 125.0 | 0 | 93.5 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 101 | 10.0 | 125.0 | 0 | 80.7 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 81.6 | | 100.0 | | 81.6 | 50 | 150 | | | | |

| Sample ID: 2401469-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867983 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 192 | 23.0 | 287.3 | 27.53 | 57.4 | 6.01 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 201 | 11.5 | 143.6 | 80.37 | 84.1 | 11.6 | 127 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 145 | 11.5 | 143.6 | 54.78 | 63.0 | 24.7 | 129 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 91.7 | 11.5 | 143.6 | 10.07 | 56.9 | 25.5 | 132 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 100 | 11.5 | 143.6 | 0 | 70.0 | 21.4 | 138 | | | | |
| Surr: 1-Chlorooctadecane | 61.9 | | 114.9 | | 53.9 | 50 | 150 | | | | |

| Sample ID: 2401469-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867990 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 219 | 23.0 | 287.3 | 23.77 | 68.1 | 12.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 281 | 11.5 | 143.6 | 91.80 | 132 | 26.3 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C16) | 253 | 11.5 | 143.6 | 101.7 | 105 | 23.3 | 139 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 121 | 11.5 | 143.6 | 20.82 | 69.6 | 32.2 | 131 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 108 | 11.5 | 143.6 | 0 | 75.4 | 35.8 | 139 | | | | |
| Surr: o-Terphenyl | 85.3 | | 114.9 | | 74.2 | 50 | 150 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: 2401469-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89470 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867984 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 200 | 23.1 | 288.1 | 27.53 | 60.0 | 6.01 | 130 | 192.4 | 4.12 | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | 247 | 11.5 | 144.1 | 80.37 | 115 | 11.6 | 127 | 201.1 | 20.3 | 30 | |
| Aliphatic Hydrocarbon (C12-C16) | 180 | 11.5 | 144.1 | 54.78 | 86.9 | 24.7 | 129 | 145.3 | 21.3 | 30 | |
| Aliphatic Hydrocarbon (C16-C21) | 104 | 11.5 | 144.1 | 10.07 | 65.4 | 25.5 | 132 | 91.74 | 12.8 | 30 | |
| Aliphatic Hydrocarbon (C21-C34) | 116 | 11.5 | 144.1 | 0 | 80.5 | 21.4 | 138 | 100.5 | 14.3 | 30 | |
| Surr: 1-Chlorooctadecane | 70.7 | | 115.3 | | 61.3 | 50 | 150 | | 0 | | |

| Sample ID: 2401469-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 1/29/2024 | | RunNo: 89471 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-21D-S7 | | Batch ID: 42747 | | | | Analysis Date: 2/5/2024 | | SeqNo: 1867991 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 205 | 23.1 | 288.1 | 23.77 | 62.9 | 12.6 | 130 | 219.4 | 6.77 | 30 | |
| Aromatic Hydrocarbon (C10-C12) | 286 | 11.5 | 144.1 | 91.80 | 135 | 26.3 | 130 | 281.2 | 1.69 | 30 | S |
| Aromatic Hydrocarbon (C12-C16) | 265 | 11.5 | 144.1 | 101.7 | 113 | 23.3 | 139 | 252.9 | 4.60 | 30 | |
| Aromatic Hydrocarbon (C16-C21) | 127 | 11.5 | 144.1 | 20.82 | 73.8 | 32.2 | 131 | 120.8 | 5.17 | 30 | |
| Aromatic Hydrocarbon (C21-C34) | 110 | 11.5 | 144.1 | 0 | 76.5 | 35.8 | 139 | 108.3 | 1.79 | 30 | |
| Surr: o-Terphenyl | 84.3 | | 115.3 | | 73.1 | 50 | 150 | | 0 | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42713 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865040 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 20.5 | 2.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 12.9 | 2.50 | 10.00 | 0 | 129 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 20.3 | 2.50 | 10.00 | 0 | 203 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C10-C12) | 13.1 | 2.50 | 10.00 | 0 | 131 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C8-C10) | 34.9 | 2.50 | 50.00 | 0 | 69.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C10-C12) | 6.27 | 2.50 | 10.00 | 0 | 62.7 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 6.22 | 2.50 | 10.00 | 0 | 62.2 | 70 | 130 | | | | S |
| Surr: 2,5-dibromotoluene | 2.02 | | 2.500 | | 81.0 | 60 | 140 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. Samples will be qualified with a *.

| Sample ID: MB-42713 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865036 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 1.75 | | 2.500 | | 70.0 | 60 | 140 | | | | |

| Sample ID: 2401315-001BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 1/24/2024 | | RunNo: 89314 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 0.997 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C10-C12) | 2.21 | 0.997 | | 0 | 0 | | | 2.132 | 3.80 | 25 | Q+ |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: 2401315-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | Prep Date: 1/24/2024 | | | RunNo: 89314 | | | |
|-----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 42713 | | | | Analysis Date: 1/24/2024 | | | SeqNo: 1865038 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 1.16 | 0.997 | | 0 | 0 | | | 0.8308 | 32.7 | 25 | BQ- |
| Aromatic Hydrocarbon (C10-C12) | 1.17 | 0.997 | | 0 | 0 | | | 1.288 | 9.87 | 25 | Q- |
| Aromatic Hydrocarbon (C12-C13) | 1.35 | 0.997 | | 0 | 0 | | | 1.219 | 10.2 | 25 | Q- |
| Surr: 2,5-dibromotoluene | 0.657 | | 0.9971 | | 65.9 | 60 | 140 | | 0 | 0 | |

NOTES:

Q+ - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Q- - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: LCS-42713 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: LCSS | Batch ID: 42713 | Analysis Date: 1/25/2024 | | | | | | SeqNo: 1865012 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 17.9 | 2.50 | 20.00 | 0 | 89.3 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 2.50 | 10.00 | 0 | 112 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 12.0 | 2.50 | 10.00 | 0 | 120 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.7 | 2.50 | 10.00 | 0 | 107 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 52.3 | 2.50 | 50.00 | 0 | 105 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.2 | 2.50 | 10.00 | 0 | 102 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.60 | | 2.500 | | 104 | 60 | 140 | | | | |

| Sample ID: MB-42713 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: MBLKS | Batch ID: 42713 | | | | | Analysis Date: 1/26/2024 | | | SeqNo: 1864974 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |

Work Order: 2401469
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-42713 | SampType: MBLK | Units: mg/Kg | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | | |
| Client ID: MBLKS | Batch ID: 42713 | | | | Analysis Date: 1/26/2024 | | | SeqNo: 1864974 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 2,5-dibromotoluene | 1.83 | | 2.500 | | 73.3 | 60 | 140 | | | | |

| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
|-----------------------------------|------------------------|---------------------------------|-----------|-------------|------|-----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: MW-21D-S7 | Batch ID: 42713 | Analysis Date: 1/26/2024 | | | | | | SeqNo: 1864986 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.40 | | 0 | 0 | | | 0 | | 25 | |
| Aliphatic Hydrocarbon (C6-C8) | 24.9 | 1.40 | | 0 | 0 | | | 22.74 | 9.25 | 25 | |
| Aliphatic Hydrocarbon (C8-C10) | 33.5 | 1.40 | | 0 | 0 | | | 33.57 | 0.230 | 25 | |
| Aromatic Hydrocarbon (C8-C10) | 44.7 | 1.40 | | 0 | 0 | | | 44.93 | 0.405 | 25 | |
| Aromatic Hydrocarbon (C12-C13) | 19.2 | 1.40 | | 0 | 0 | | | 18.77 | 2.48 | 25 | |
| Surr: 2,5-dibromotoluene | 1.49 | | 1.401 | | 106 | 60 | 140 | | 0 | 0 | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|-------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401469-001BDUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 1/24/2024 | | | RunNo: 89309 | | |
| Client ID: MW-21D-S7 | Batch ID: 42713 | | | | | Analysis Date: 1/31/2024 | | | SeqNo: 1868193 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C10-C12) | 49.0 | 14.0 | | 0 | 0 | | | 47.58 | 2.92 | 25 | DH |
| Aromatic Hydrocarbon (C10-C12) | 29.2 | 14.0 | | 0 | 0 | | | 29.04 | 0.665 | 25 | DH |
| Surr: 2,5-dibromotoluene | 10.0 | | 14.01 | | 71.4 | 60 | 140 | | 0 | 0 | DH |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401469
 Date Received: 1/24/2024 4:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
 MeOH ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.7 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401269
Work Order Number: 2401419

January 30, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 1/23/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

CLIENT: Friedman & Bruya
Project: 401269
Work Order: 2401419

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2401419-001 | MW-21D-S2 | 01/16/2024 10:50 AM | 01/23/2024 1:30 PM |
| 2401419-002 | MW-21D-S4 | 01/16/2024 10:30 AM | 01/23/2024 1:30 PM |
| 2401419-003 | MW-21D-S7 | 01/16/2024 2:30 PM | 01/23/2024 1:30 PM |
| 2401419-004 | MW-21D-S2 | 01/19/2024 3:05 PM | 01/23/2024 1:30 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 401269

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401269

Lab ID: 2401419-001 **Collection Date:** 1/16/2024 10:50:00 AM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 1:05:00 PM |

Lab ID: 2401419-002 **Collection Date:** 1/16/2024 10:30:00 AM
Client Sample ID: MW-21D-S4 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 2:32:00 PM |

Lab ID: 2401419-003 **Collection Date:** 1/16/2024 2:30:00 PM
Client Sample ID: MW-21D-S7 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:15:00 PM |

Lab ID: 2401419-004 **Collection Date:** 1/19/2024 3:05:00 PM
Client Sample ID: MW-21D-S2 **Matrix:** Soil

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|-----------------|----|----------------------|
| <u>Total Organic Carbon by EPA 9060</u> | | | | Batch ID: 42741 | | Analyst: FG |
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 1/29/2024 3:32:00 PM |

Work Order: 2401419
CLIENT: Friedman & Bruya
Project: 401269

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-42741 | SampType: MBLK | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MBLKS | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864259 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-42741 | SampType: LCS | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: LCSS | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864260 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.07 | 0.150 | 1.000 | 0 | 107 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001ADUP | SampType: DUP | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864262 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001AMS | SampType: MS | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864263 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2401419-001AMSD | SampType: MSD | Units: %-dry | | Prep Date: 1/29/2024 | RunNo: 89268 | | | | | | | |
| Client ID: MW-21D-S2 | Batch ID: 42741 | | | Analysis Date: 1/29/2024 | SeqNo: 1864264 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.04 | 0.150 | 1.000 | 0 | 104 | 75 | 125 | 1.106 | 6.63 | 20 | | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2401419
 Date Received: 1/23/2024 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of

Phone # (206) 285-8282

TURNAROUND TIME
☒ Standard TAT
☐ RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

TURNAROUND TIME
☒ Standard TAT
☐ RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 8 of 8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 16, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 6, 2024 from the Whidbey Marine 0204475-001, F&BI 402067 project. There are 33 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0216R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402067 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402067 -01 | MW-1S |
| 402067 -02 | MW-3S |
| 402067 -03 | MW-22D |
| 402067 -04 | MW-23D |

Samples MW-22D and MW-3D were sent to Fremont Analytical for TOC, nitrate, nitrite, sulfate, chloride, ammonia, alkalinity, sulfide, and dissolved gases analyses. The report is enclosed.

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-22D 402067-03 | 220 | 99 |
| MW-23D 402067-04 1/20 | 62,000 | 103 |
| Method Blank 04-202 MB | <100 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-1S 402067-01 | <1 | <1 | <1 | <3 | <100 | 77 |
| MW-3S 402067-02 | <1 | <1 | <1 | <3 | <100 | 86 |
| Method Blank 04-202 MB | <1 | <1 | <1 | <3 | <100 | 81 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152) |
|-----------------------------------|--|---|---|
| MW-1S 402067-01 1/1.2 | <60 | <300 | 98 |
| MW-3S 402067-02 1/1.2 | <60 | <300 | 104 |
| MW-22D 402067-03 1/1.2 | <60 | <300 | 99 |
| MW-23D 402067-04 1/1.2 | 2,900 x | <300 | 103 |
| Method Blank 04-325 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/07/24

Date Analyzed: 02/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-1S 402067-01 1/1.2 | 70 x | <300 | 98 |
| MW-3S 402067-02 1/1.2 | 63 x | <300 | 102 |
| MW-22D 402067-03 1/1.2 | 130 x | <300 | 101 |
| MW-23D 402067-04 1/1.2 | 7,000 x | <300 | 102 |
| Method Blank 04-325 MB | <50 | <250 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-03.160 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 2.56 |
| Lead | 1.48 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 x50 |
| Date Analyzed: | 02/09/24 | Data File: | 402067-03 x50.077 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 1,010 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-04.161 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 11.4 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 x50 |
| Date Analyzed: | 02/09/24 | Data File: | 402067-04 x50.078 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,000 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-101 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-101 mb.051 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-03.162 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 2.07 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 402067-04.163 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 11.6 |
| Lead | 1.59 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-99 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-99 mb.049 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-1S | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-01 |
| Date Analyzed: | 02/07/24 | Data File: | 020719.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 105 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-3S | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-02 |
| Date Analyzed: | 02/07/24 | Data File: | 020720.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 106 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/07/24 | Data File: | 020721.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 106 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | 8.9 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 26 |
| Hexane | <5 | o-Xylene | 11 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 1.6 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 4.3 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 9.7 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 2.2 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-04 1/200 |
| Date Analyzed: | 02/07/24 | Data File: | 020722.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <200 | 1,3-Dichloropropane | <200 |
| Chloromethane | <2,000 | Tetrachloroethene | <200 |
| Vinyl chloride | <4 | Dibromochloromethane | <100 |
| Bromomethane | <1,000 | 1,2-Dibromoethane (EDB) | <2 |
| Chloroethane | <200 | Chlorobenzene | <200 |
| Trichlorofluoromethane | <200 ca | Ethylbenzene | 1,300 |
| Acetone | <10,000 ca | 1,1,1,2-Tetrachloroethane | <200 |
| 1,1-Dichloroethene | <200 | m,p-Xylene | 4,400 |
| Hexane | <1,000 | o-Xylene | 1,000 |
| Methylene chloride | <1,000 | Styrene | <200 |
| Methyl t-butyl ether (MTBE) | <200 | Isopropylbenzene | <200 |
| trans-1,2-Dichloroethene | <200 | Bromoform | <1,000 |
| 1,1-Dichloroethane | <200 | n-Propylbenzene | <200 |
| 2,2-Dichloropropane | <200 | Bromobenzene | <200 |
| cis-1,2-Dichloroethene | <200 | 1,3,5-Trimethylbenzene | 220 |
| Chloroform | <200 | 1,1,2,2-Tetrachloroethane | <40 |
| 2-Butanone (MEK) | <4,000 | 1,2,3-Trichloropropane | <200 |
| 1,2-Dichloroethane (EDC) | <40 | 2-Chlorotoluene | <200 |
| 1,1,1-Trichloroethane | <200 | 4-Chlorotoluene | <200 |
| 1,1-Dichloropropene | <200 | tert-Butylbenzene | <200 |
| Carbon tetrachloride | <100 | 1,2,4-Trimethylbenzene | 580 |
| Benzene | 11 j | sec-Butylbenzene | <200 |
| Trichloroethene | <100 | p-Isopropyltoluene | <200 |
| 1,2-Dichloropropane | <200 | 1,3-Dichlorobenzene | <200 |
| Bromodichloromethane | <100 | 1,4-Dichlorobenzene | <200 |
| Dibromomethane | <200 | 1,2-Dichlorobenzene | <200 |
| 4-Methyl-2-pentanone | <2,000 | 1,2-Dibromo-3-chloropropane | <2,000 |
| cis-1,3-Dichloropropene | <80 | 1,2,4-Trichlorobenzene | <200 |
| Toluene | 15,000 | Hexachlorobutadiene | <100 |
| trans-1,3-Dichloropropene | <80 | Naphthalene | 380 |
| 1,1,2-Trichloroethane | <100 | 1,2,3-Trichlorobenzene | <200 |
| 2-Hexanone | <2,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 04-0284 mb |
| Date Analyzed: | 02/07/24 | Data File: | 020709.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.025 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-03 |
| Date Analyzed: | 02/08/24 | Data File: | 020816.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 11 | 173 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 65 ca | 10 | 140 |
| Terphenyl-d14 | 74 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 1.4 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 |
| Date Analyzed: | 02/08/24 | Data File: | 020817.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 98 | 11 | 173 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 95 ca | 10 | 140 |
| Terphenyl-d14 | 80 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 160 ve |
| 2-Methylnaphthalene | 72 ve |
| 1-Methylnaphthalene | 32 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.10 |
| Fluorene | 0.18 |
| Phenanthrene | 0.18 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 402067-04 1/100 |
| Date Analyzed: | 02/09/24 | Data File: | 020916.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 d | 15 | 144 |
| 2-Fluorobiphenyl | 80 d | 25 | 128 |
| 2,4,6-Tribromophenol | 280 d | 10 | 142 |
| Terphenyl-d14 | 80 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 230 |
| 2-Methylnaphthalene | 65 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/08/24 | Lab ID: | 04-0335 mb |
| Date Analyzed: | 02/08/24 | Data File: | 020811a.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 | 15 | 144 |
| 2-Fluorobiphenyl | 65 | 25 | 128 |
| 2,4,6-Tribromophenol | 75 | 10 | 142 |
| Terphenyl-d14 | 91 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

Date Extracted: 02/09/24

Date Analyzed: 02/12/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-22D 402067-03 | 82 |
| MW-23D 402067-04 | 46 |
| Method Blank I4-0105 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402067-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 96 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 88 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 82 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 80 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 402100-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 22.1 | 83 b | 81 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | <1 | 86 | 87 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 2.76 | 92 | 95 | 75-125 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 93 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 100 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 13.4 | 95 b | 97 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | 1.15 | 81 | 78 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 95 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402068-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 99 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 103 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 99 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 94 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 79 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 44 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 91 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 92 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 84 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 91 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 87 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 96 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 88 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 101 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 87 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | 3.6 | 95 b | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 105 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 93 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 86 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 108 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 114 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 105 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 93 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 105 | 104 | 46-206 | 1 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 103 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 99 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 93 | 102 | 50-197 | 9 |
| Chloroethane | ug/L (ppb) | 10 | 97 | 96 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 87 | 75 | 51-159 | 15 |
| Acetone | ug/L (ppb) | 50 | 51 | 52 | 10-140 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 90 | 90 | 64-140 | 0 |
| Hexane | ug/L (ppb) | 10 | 100 | 102 | 54-136 | 2 |
| Methylene chloride | ug/L (ppb) | 10 | 97 | 93 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 97 | 96 | 64-148 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Chloroform | ug/L (ppb) | 10 | 87 | 90 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 75 | 89 | 47-112 | 17 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 89 | 88 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 102 | 101 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 90 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| Bromodichloromethane | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromomethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 103 | 105 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 96 | 69-131 | 4 |
| Toluene | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 91 | 90 | 45-138 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 110 | 103 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 101 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| Chlorobenzene | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| m,p-Xylene | ug/L (ppb) | 20 | 96 | 96 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 92 | 91 | 70-130 | 1 |
| Styrene | ug/L (ppb) | 10 | 91 | 88 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| Bromoform | ug/L (ppb) | 10 | 119 | 111 | 69-138 | 7 |
| n-Propylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 126 | 122 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 118 | 114 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 119 | 117 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 99 | 105 | 70-130 | 6 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 111 | 70-130 | 10 |
| Naphthalene | ug/L (ppb) | 10 | 113 | 119 | 70-130 | 5 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 106 | 114 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 66 | 64 | 50-104 | 3 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 71 | 69 | 52-113 | 3 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 69 | 67 | 51-115 | 3 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 78 | 60-114 | 3 |
| Acenaphthene | ug/L (ppb) | 5 | 77 | 76 | 57-110 | 1 |
| Fluorene | ug/L (ppb) | 5 | 84 | 84 | 61-115 | 0 |
| Phenanthrene | ug/L (ppb) | 5 | 84 | 86 | 63-113 | 2 |
| Anthracene | ug/L (ppb) | 5 | 86 | 89 | 65-117 | 3 |
| Fluoranthene | ug/L (ppb) | 5 | 92 | 95 | 68-121 | 3 |
| Pyrene | ug/L (ppb) | 5 | 88 | 90 | 62-133 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 89 | 94 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 5 | 91 | 95 | 66-129 | 4 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 95 | 101 | 66-129 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 88 | 92 | 55-144 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 92 | 99 | 58-139 | 7 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 103 | 105 | 62-136 | 2 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 99 | 102 | 55-146 | 3 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 97 | 100 | 58-137 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 84 | 98 | 35-146 | 15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402067

SAMPLE CHAIN OF CUSTODY

02/06/24

vwh/KS/531

Report To H. Good, V. PehlivanCompany HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

SAMPLERS (signature) [Signature]

PROJECT NAME

Whitty Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | Notes |
|-----------|---------------------------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|--|---------------|---------------|---|-----------------------------------|-----|-----|----------------|-----------------------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | Geochemical NWTPH-HCD | VOCs EPA 8260 | PAHs EPA 8270 | SVOCs PCB EPA 8082 | NWTPH-Dx w/ Silica gel cleanup | TOC | TSS | Tot, Dis As+Pb | |
| Mh-15 | 01A-G | 7/5/24 | 1430 | water | 7 | X | X | X | | | | X | X | | | | Geochemical |
| Mh-35 | 02A-G | | 1200 | | 7 | X | X | X | | | | X | X | | | | peramethys |
| Mh-22D | 03A-D | | 1540 | | 17 | X | X | | X | X | X | | X | X | X | X | nitrate, nitrite |
| Mh-23D | 02A-D 04A-D | ✓ | 1210 | ✓ | 16 | X | X | X | X | X | X | | X | X | X | X | ammonia, chloride |
| | | | | | | | | | | | | | | | | | sulfate, alkyl |
| | | | | | | | | | | | | | | | | | sulfide, MEG |
| | | | | | | | | | | | | | | | | | dissolved metals |
| | | | | | | | | | | | | | | | | | Manganese |
| | | | | | | | | | | | | | | | | | include Dx-0 |
| | | | | | | | | | | | | | | | | | Chromatograms |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

[Signature]Andrew NakshumHA7/6/241220

Received by:

[Signature]HONG NGUYENFBI8/6/2412:20

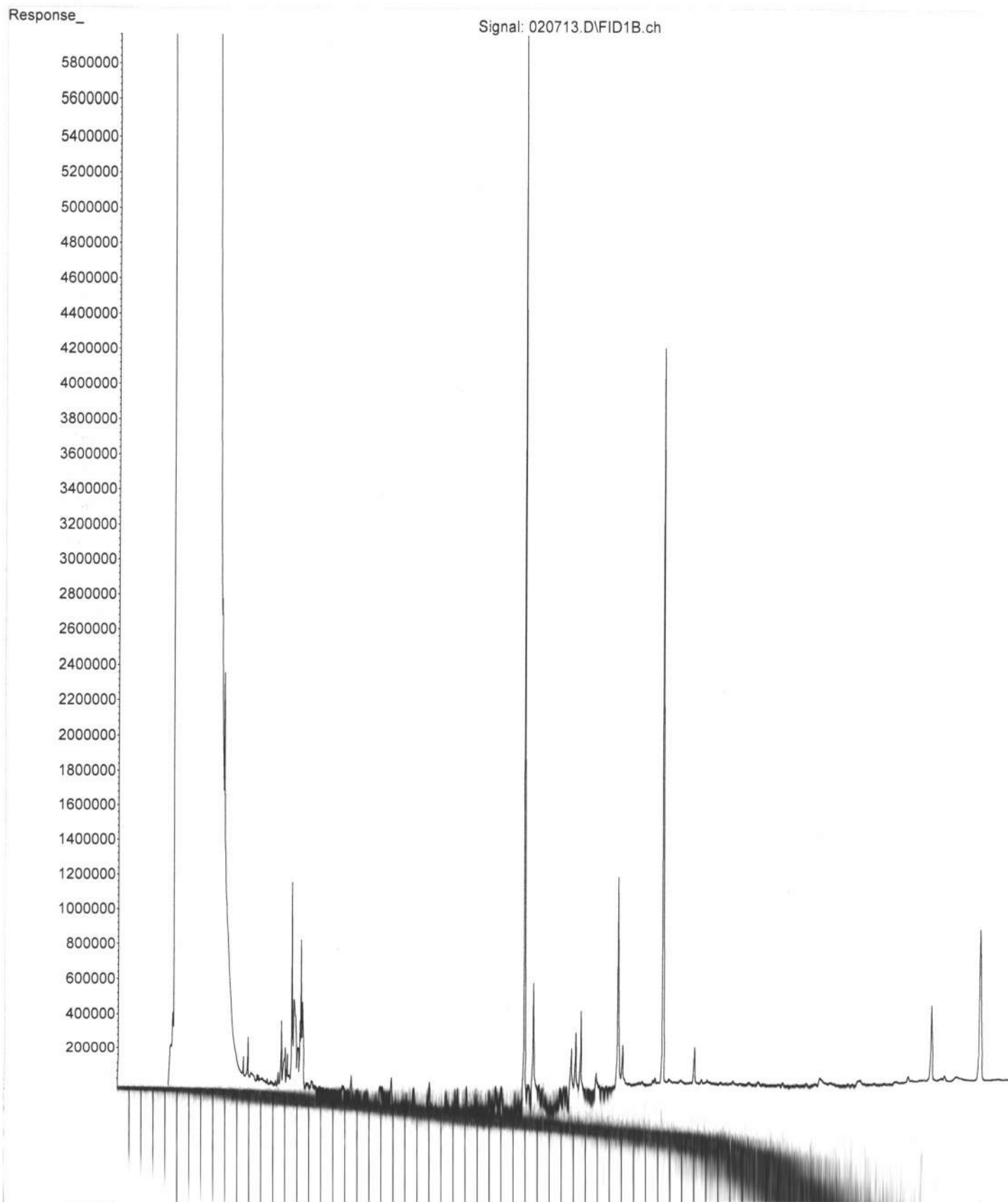
Relinquished by:

Received by:

Samples received at _____ °C

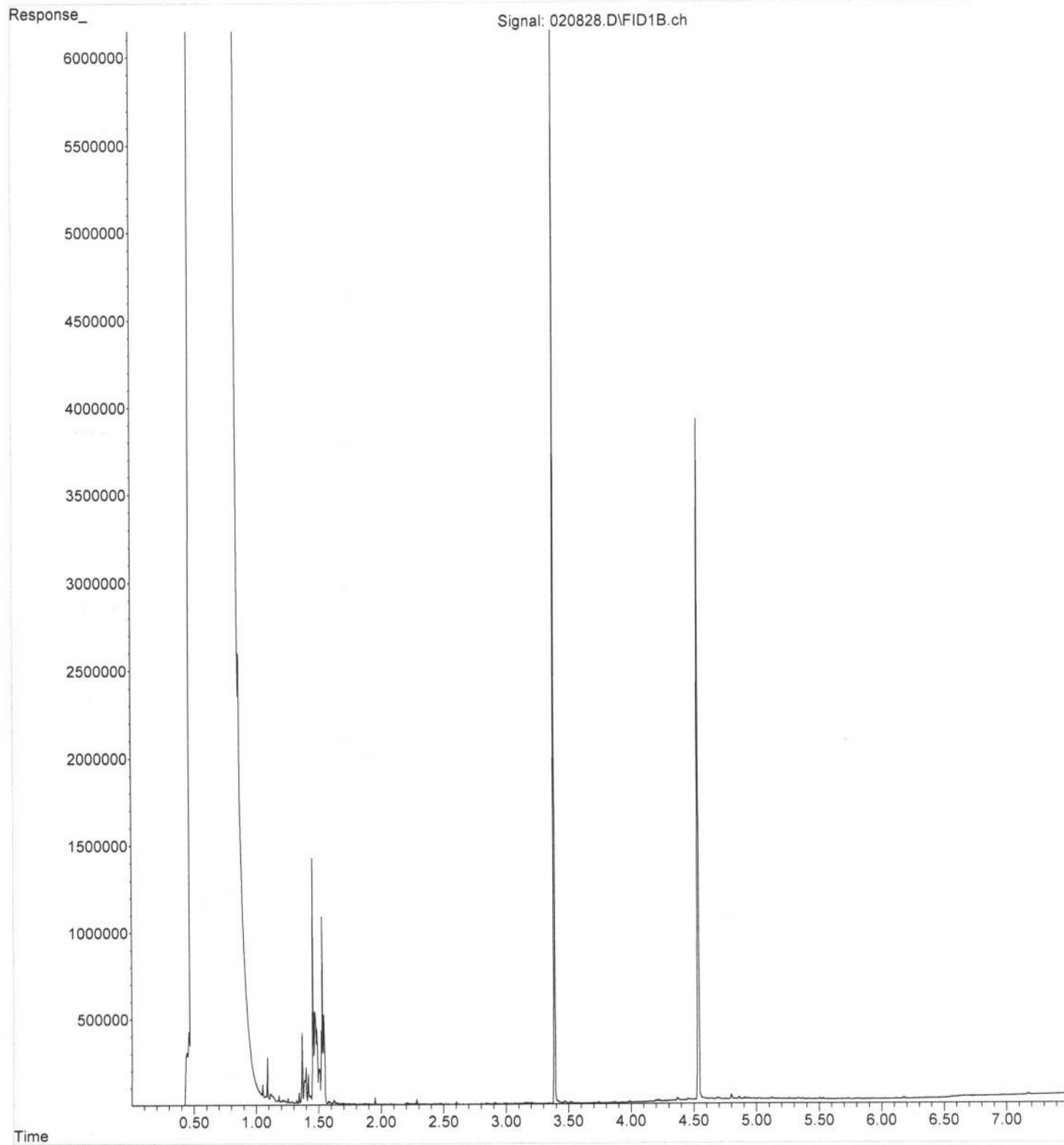
File :P:\Proc_GC14\02-07-24\020713.D
Operator : TL
Acquired : 07 Feb 2024 03:29 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01
Misc Info :
Vial Number: 13

ERR



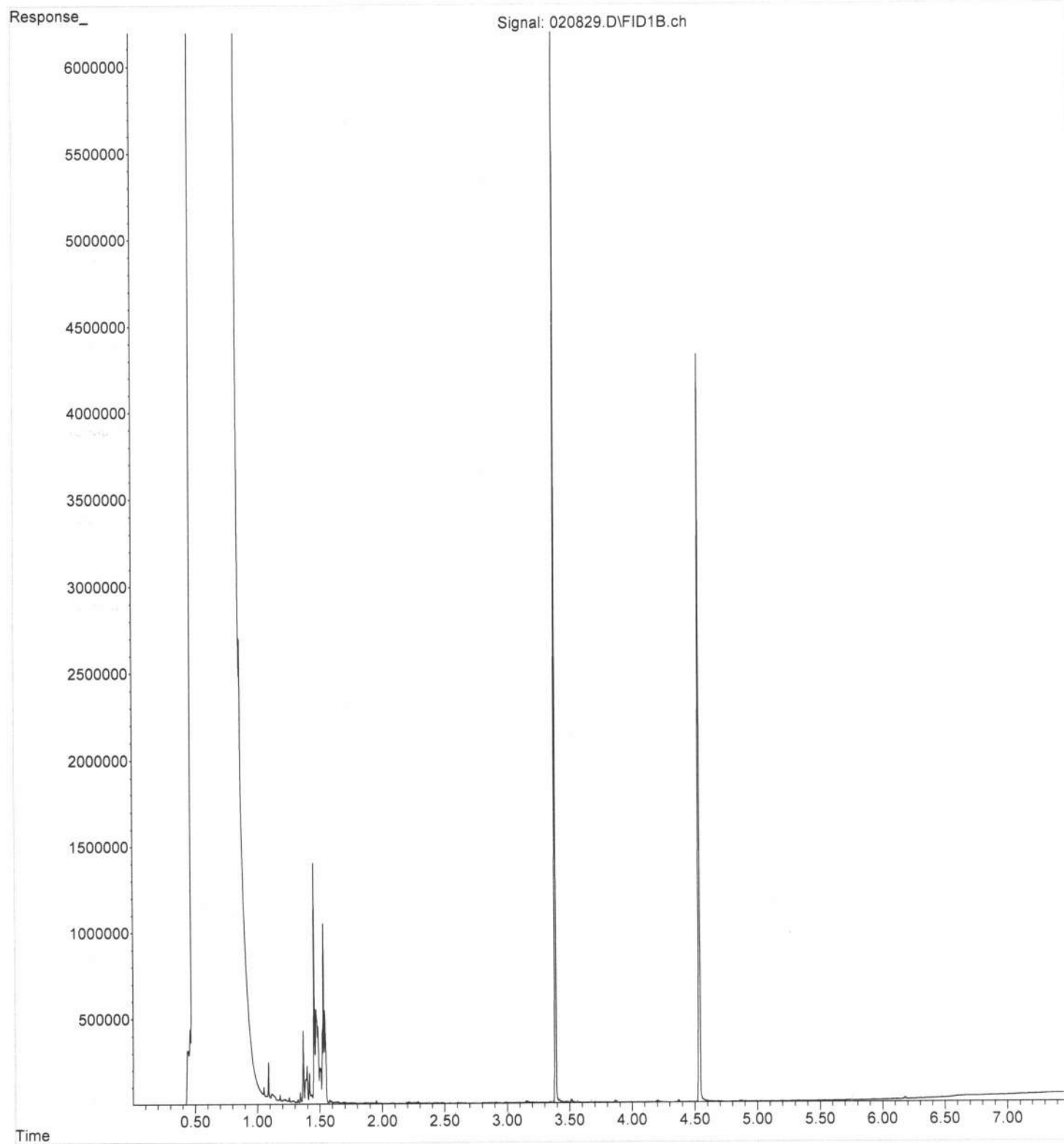
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Operator : TL
Acquired : 08 Feb 2024 05:08 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-01 sg
Misc Info :
Vial Number: 23

ERR



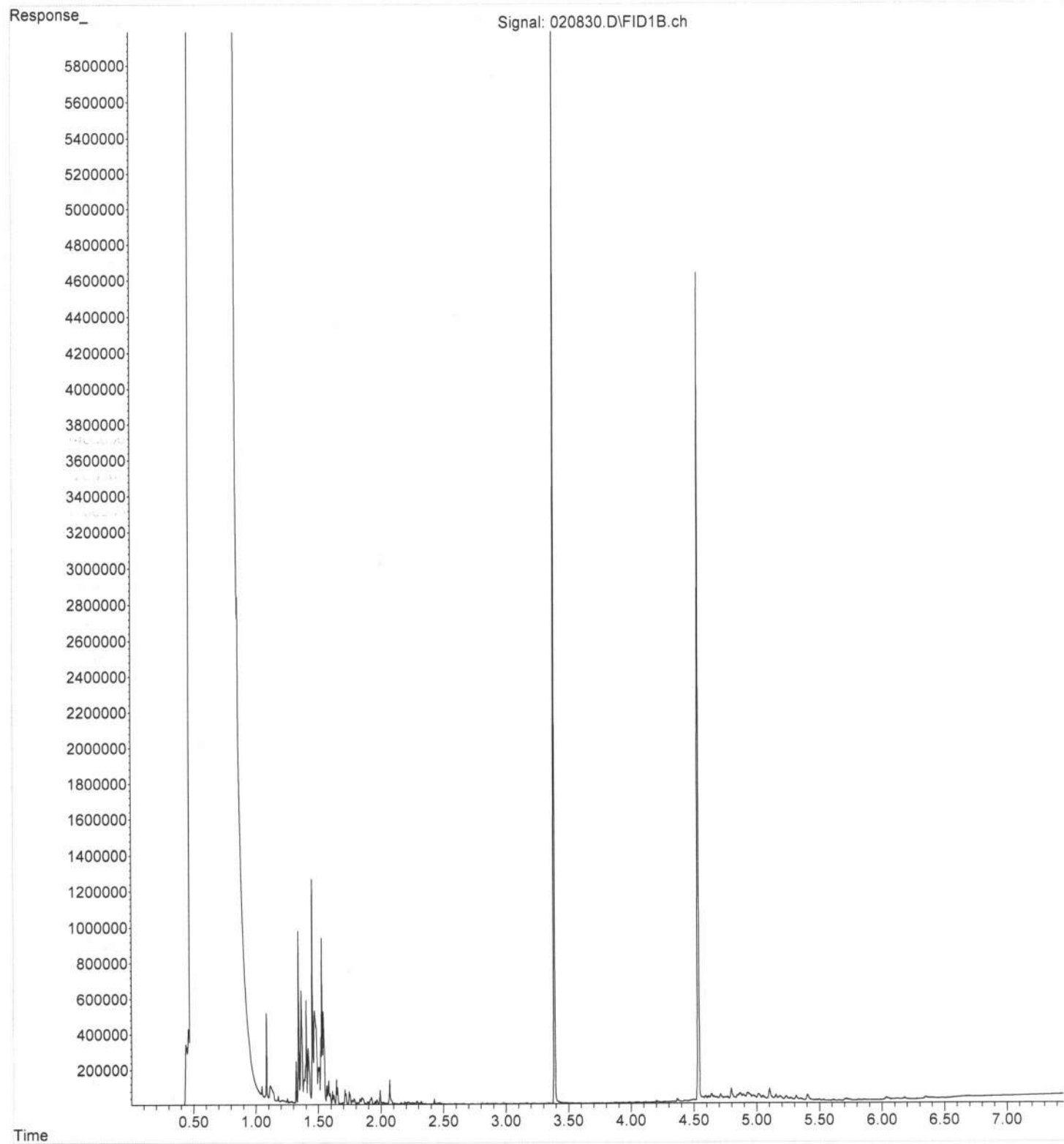
File :P:\Proc_GC14\02-08-24\020829.D
Operator : TL
Acquired : 08 Feb 2024 05:20 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-02 sg
Misc Info :
Vial Number: 24

ERR



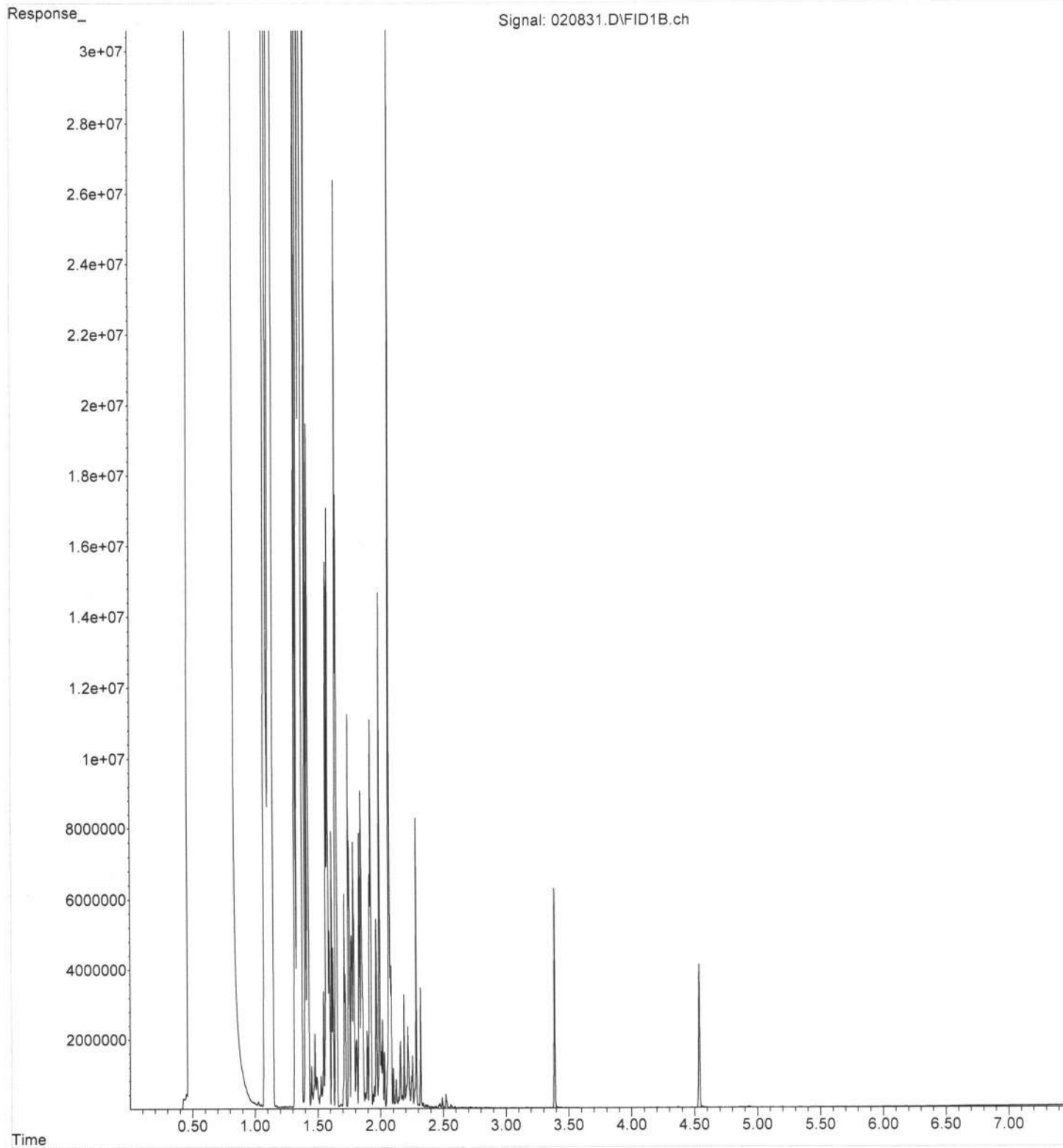
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Operator : TL
Acquired : 08 Feb 2024 05:32 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-03 sg
Misc Info :
Vial Number: 25

ERR



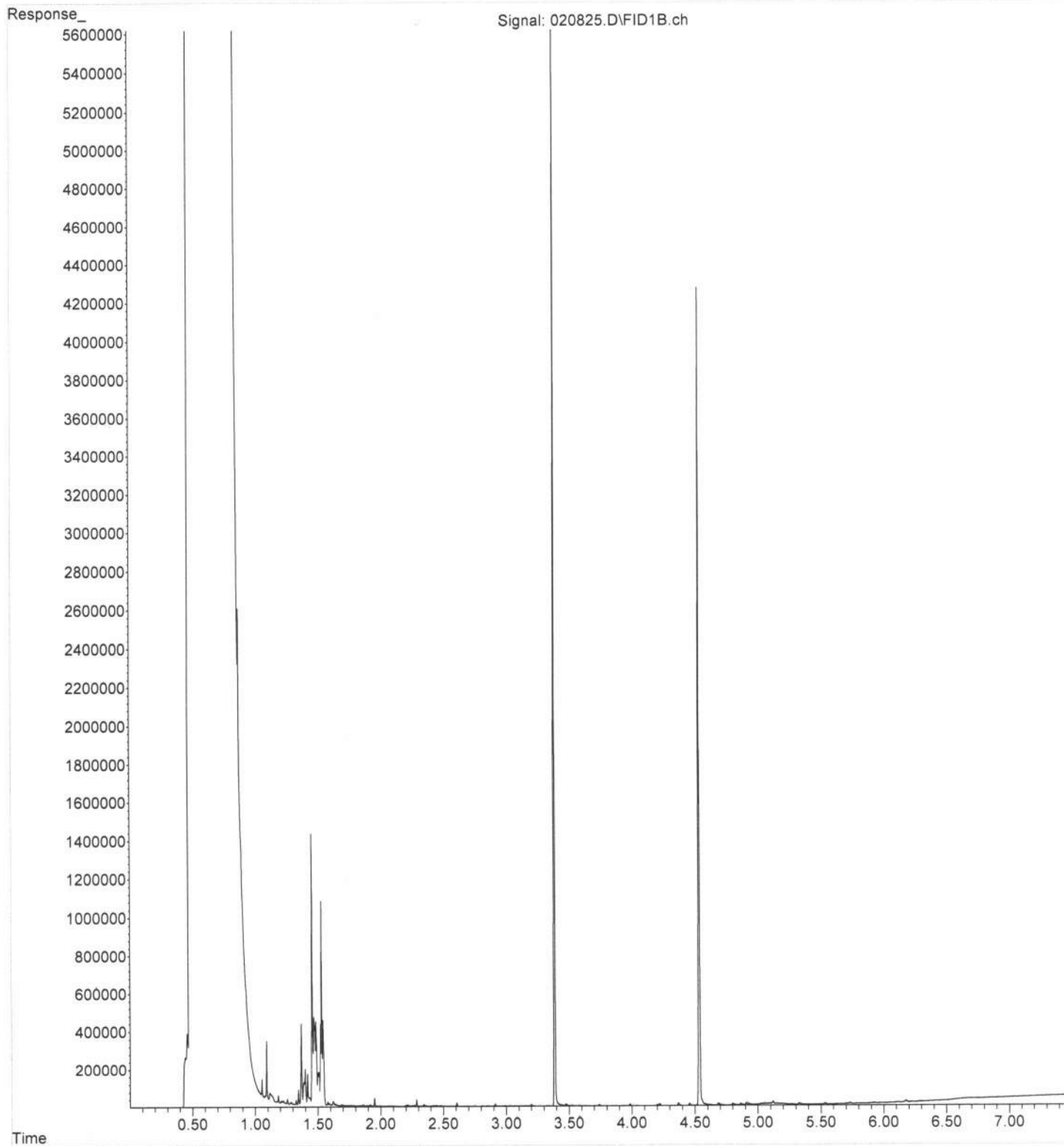
File :P:\Proc_GC14\02-08-24\020831.D
Operator : TL
Acquired : 08 Feb 2024 05:43 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402067-04 sg
Misc Info :
Vial Number: 26

ERR



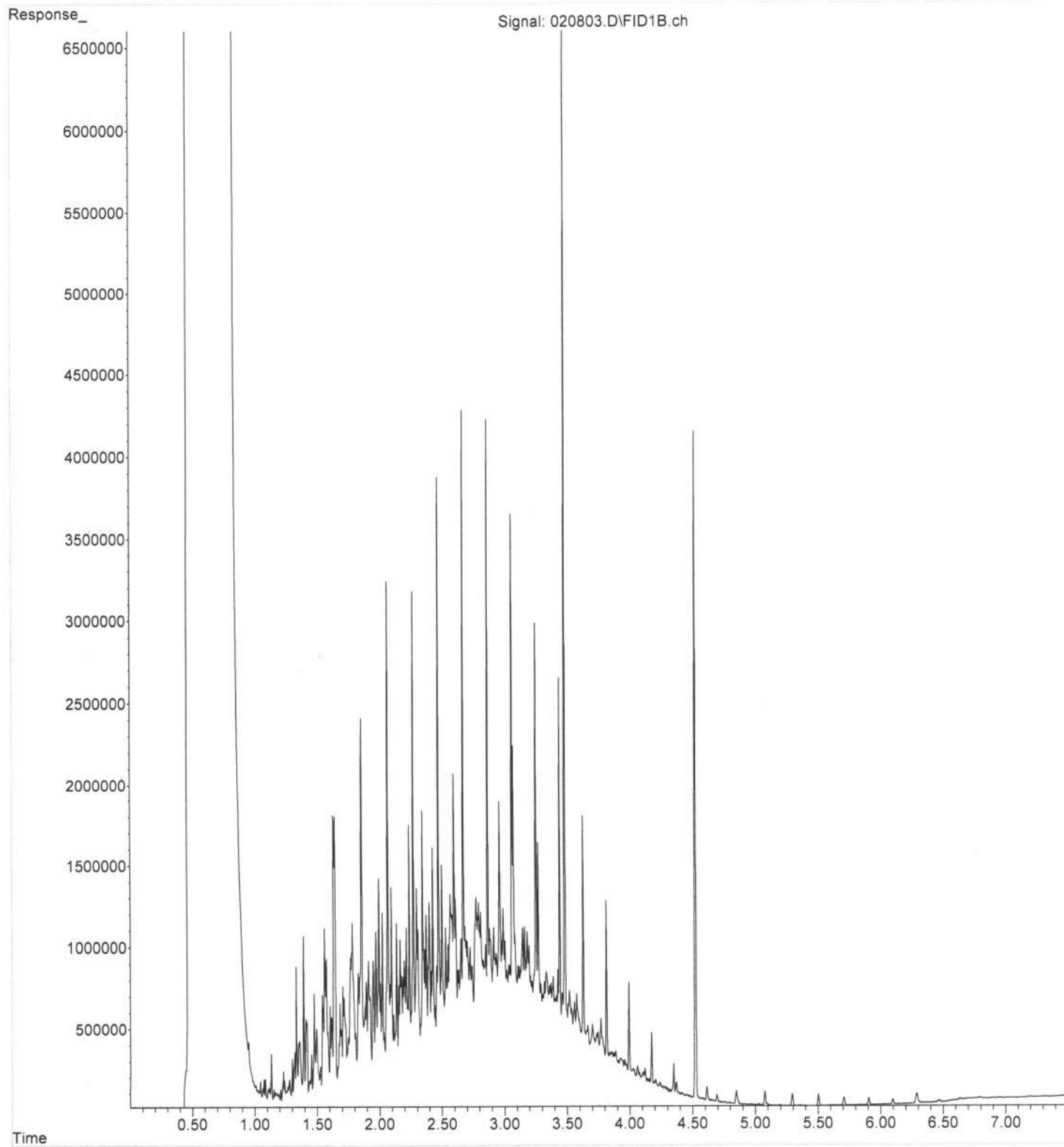
File :P:\Proc_GC14\02-08-24\020825.D
Operator : TL
Acquired : 08 Feb 2024 04:33 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-325 mb sg
Misc Info :
Vial Number: 20

ERR



File :P:\Proc_GC14\02-08-24\020803.D
Operator : TL
Acquired : 08 Feb 2024 09:00 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402067
Work Order Number: 2402085

February 13, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 2/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402067
Work Order: 2402085

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402085-001 | MW-22D | 02/05/2024 3:40 PM | 02/06/2024 3:40 PM |
| 2402085-002 | MW-23D | 02/05/2024 12:40 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 402067

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2402085**
Date Reported: **2/13/2024**

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-001

Collection Date: 2/5/2024 3:40:00 PM

Client Sample ID: MW-22D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89591 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42841 | | Analyst: SLL |
| Chloride | 6.32 | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Sulfate | 7.03 | 3.00 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.48 | 0.700 | | mg/L | 1 | 2/8/2024 9:12:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89571 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 147 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:42:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-002

Collection Date: 2/5/2024 12:40:00 PM

Client Sample ID: MW-23D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R89591 Analyst: LB

| | | | | | | |
|---------|--------|---------|--|------|---|----------------------|
| Methane | 0.0599 | 0.00675 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 1:02:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 42841 Analyst: SLL

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Chloride | 27.1 | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Sulfate | ND | 3.00 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R89535 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|---------------------|
| Total Organic Carbon | 11.3 | 0.700 | | mg/L | 1 | 2/8/2024 9:45:00 PM |
|----------------------|------|-------|--|------|---|---------------------|

Total Alkalinity by SM 2320B

Batch ID: R89571 Analyst: SS

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 244 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 42892 Analyst: FG

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:47:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R89559 Analyst: FG

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0672 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89571 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MBLKW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869827 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | ND | 2.50 | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89571 | | SampType: LCS | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: LCSW | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869828 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 108 | 2.50 | 100.0 | 0 | 108 | 86.2 | 126.2 | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89571 | | |
| Client ID: MW-22D | | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | SeqNo: 1869830 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | | 153 | 2.50 | | | | | 146.5 | 4.54 | 20 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | |
|----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869931 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | |

| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869932 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | |

| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869934 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | |

| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869935 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | |

| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 42892 | | | Analysis Date: 2/12/2024 | SeqNo: 1869936 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42841 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/6/2024 | | | | RunNo: 89464 | | |
| Client ID: MBLKW | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | | SeqNo: 1867805 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-42841 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: LCSW | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867806 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.736 | 0.120 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Nitrite (as N) | 0.716 | 0.120 | 0.7500 | 0 | 95.5 | 90 | 110 | | | | |
| Nitrate (as N) | 0.744 | 0.100 | 0.7500 | 0 | 99.2 | 90 | 110 | | | | |
| Sulfate | 3.57 | 0.600 | 3.750 | 0 | 95.1 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867808 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|------|----|--|
| Chloride | 0.211 | 0.120 | | | | | | 0.2080 | 1.43 | 20 | |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.162 | 0.100 | | | | | | 0.1600 | 1.24 | 20 | |
| Sulfate | ND | 0.600 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|-------|----|-----|--|--|--|----|
| Chloride | 31.5 | 0.120 | 0.7500 | 0.2080 | 4,180 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.735 | 0.120 | 0.7500 | 0 | 98.0 | 80 | 120 | | | | |
| Nitrate (as N) | 1.06 | 0.100 | 0.7500 | 0.1600 | 120 | 80 | 120 | | | | S |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2401588-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | Batch ID: 42841 | | | | | Analysis Date: 2/6/2024 | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 9.73 | 0.600 | 3.750 | 0.2550 | 253 | 80 | 120 | | | | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2401588-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
|-----------------------------------|------------------------|--------------------------------|-----------|-------------|-------|----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: BATCH | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | SeqNo: 1867810 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 31.4 | 0.120 | 0.7500 | 0.2080 | 4,160 | 80 | 120 | 31.53 | 0.346 | 20 | ES |
| Nitrite (as N) | 0.727 | 0.120 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7350 | 1.09 | 20 | |
| Nitrate (as N) | 1.05 | 0.100 | 0.7500 | 0.1600 | 119 | 80 | 120 | 1.061 | 0.947 | 20 | |
| Sulfate | 9.59 | 0.600 | 3.750 | 0.2550 | 249 | 80 | 120 | 9.733 | 1.48 | 20 | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89559 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MBLKW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869569 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89559 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: LCSW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869570 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.221 | 0.0500 | 0.2000 | 0 | 111 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869626 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.0614 | 0.0500 | | | | | | 0.06724 | 9.01 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869627 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.279 | 0.0500 | 0.2000 | 0.06724 | 106 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869628 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.292 | 0.0500 | 0.2000 | 0.06724 | 112 | 80 | 120 | 0.2793 | 4.46 | 20 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869640 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-R89535 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869134 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R89535 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: LCSW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869135 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 5.05 | 0.700 | 5.000 | 0 | 101 | 90 | 116 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|------------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402046-001ADUP | SampType: DUP | Units: mg/L-dry | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869138 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 22.0 | 2.24 | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869139 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.5 | 0.700 | 5.000 | 7.032 | 88.9 | 41.1 | 150 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869140 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.8 | 0.700 | 5.000 | 7.032 | 94.5 | 41.1 | 150 | 11.48 | 2.44 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: CCB-D | SampType: MBLK | Units: mg/L | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | | | |
| Client ID: MBLKW | Batch ID: R89535 | | Analysis Date: 2/9/2024 | SeqNo: 1869461 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402100-001CDUP | SampType: DUP | Units: mg/L | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | Analysis Date: 2/9/2024 | SeqNo: 1869477 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2402100-001CMS | SampType: MS | Units: mg/L | Prep Date: 2/10/2024 | RunNo: 89535 | | | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | Analysis Date: 2/10/2024 | SeqNo: 1869438 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89591 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: LCSW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870309 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 964 | 0.00675 | 1,000 | 0 | 96.4 | 73.6 | 124 | | | | |
| Ethene | 962 | 0.0146 | 1,000 | 0 | 96.2 | 76.3 | 122 | | | | |
| Ethane | 1,010 | 0.0151 | 1,000 | 0 | 101 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R89591 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: MBLKW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870308 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402099-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: BATCH | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870287 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|---------|--|--|--|--|--|-------|------|----|---|
| Methane | 3.33 | 0.00675 | | | | | | 3.177 | 4.57 | 30 | E |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402085
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
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(206) 285-8282
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www.friedmanandbruya.com

February 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 8, 2024 from the Whidbey Marine 0204475, F&BI 402114 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 8, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475, F&BI 402114 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402114 -01 | MW-10D-W |
| 402114 -02 | MW-11D-W |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| MW-10D-W 402114-01 | <1 | <1 | <1 | <3 | <100 | 87 |
| MW-11D-W 402114-02 | <1 | <1 | <1 | <3 | <100 | 87 |
| Method Blank 04-206 MB | <1 | <1 | <1 | <3 | <100 | 85 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/16/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 41-152) |
| MW-10D-W | <60 | <300 | 97 |
| 402114-01 1/1.2 | | | |
| MW-11D-W | <50 | <250 | 102 |
| 402114-02 | | | |
| Method Blank | <50 | <250 | 114 |
| 04-336 MB2 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

Date Extracted: 02/09/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-10D-W 402114-01 1/1.2 | <60 | <300 | 98 |
| MW-11D-W 402114-02 | 71 x | <250 | 99 |
| Method Blank 04-336 MB2 | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402114-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | <1 | <1 | nm |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Benzene | ug/L (ppb) | 50 | 92 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 92 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 88 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 98 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 84 | 92 | 65-151 | 9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/19/24

Date Received: 02/08/24

Project: Whidbey Marine 0204475, F&BI 402114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 80 | 92 | 65-151 | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

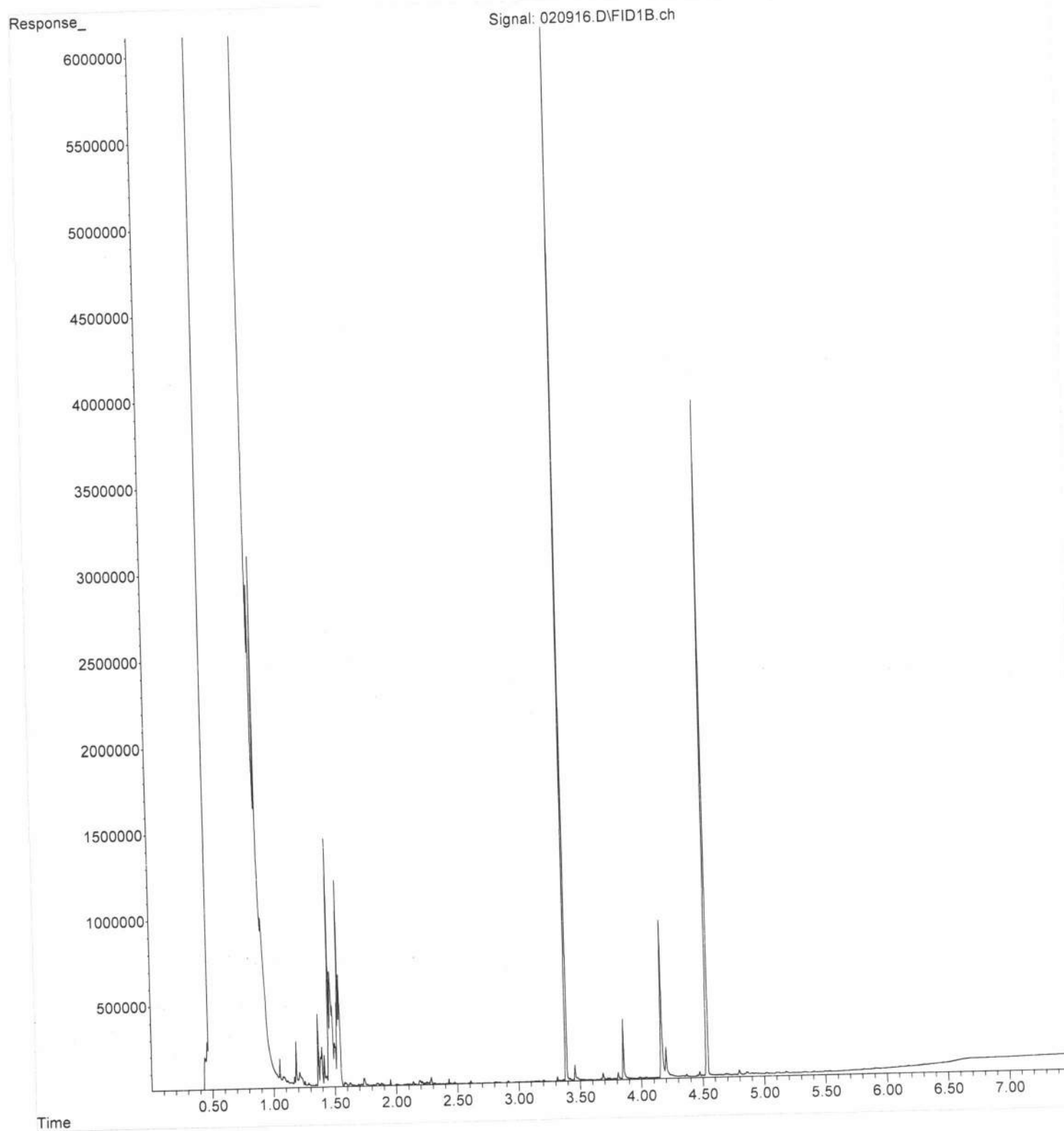
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

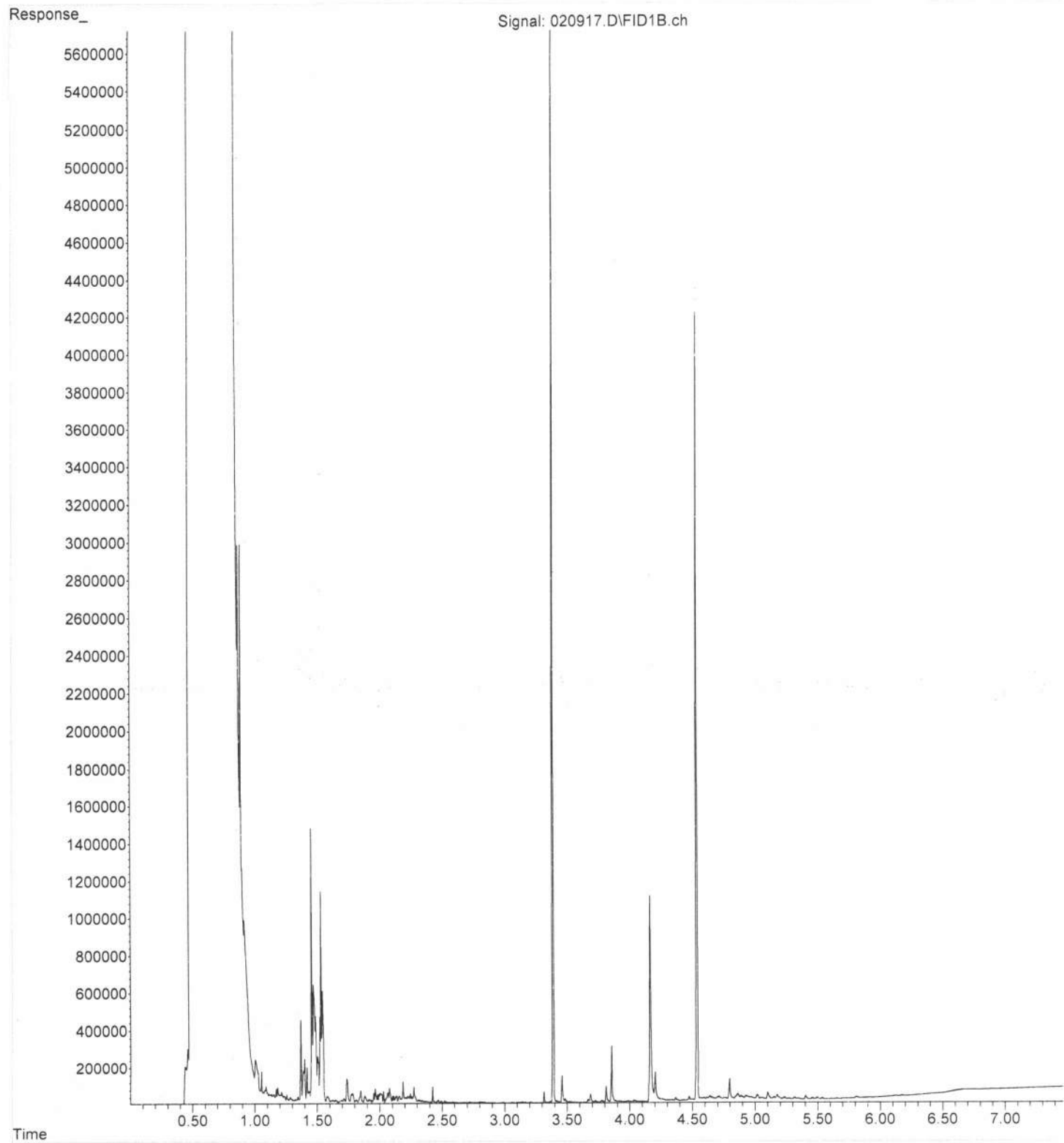
File :P:\Proc_GC14\02-09-24\020916.D
Operator : TL
Acquired : 09 Feb 2024 11:27 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402114-01
Misc Info :
Vial Number: 16

ERR



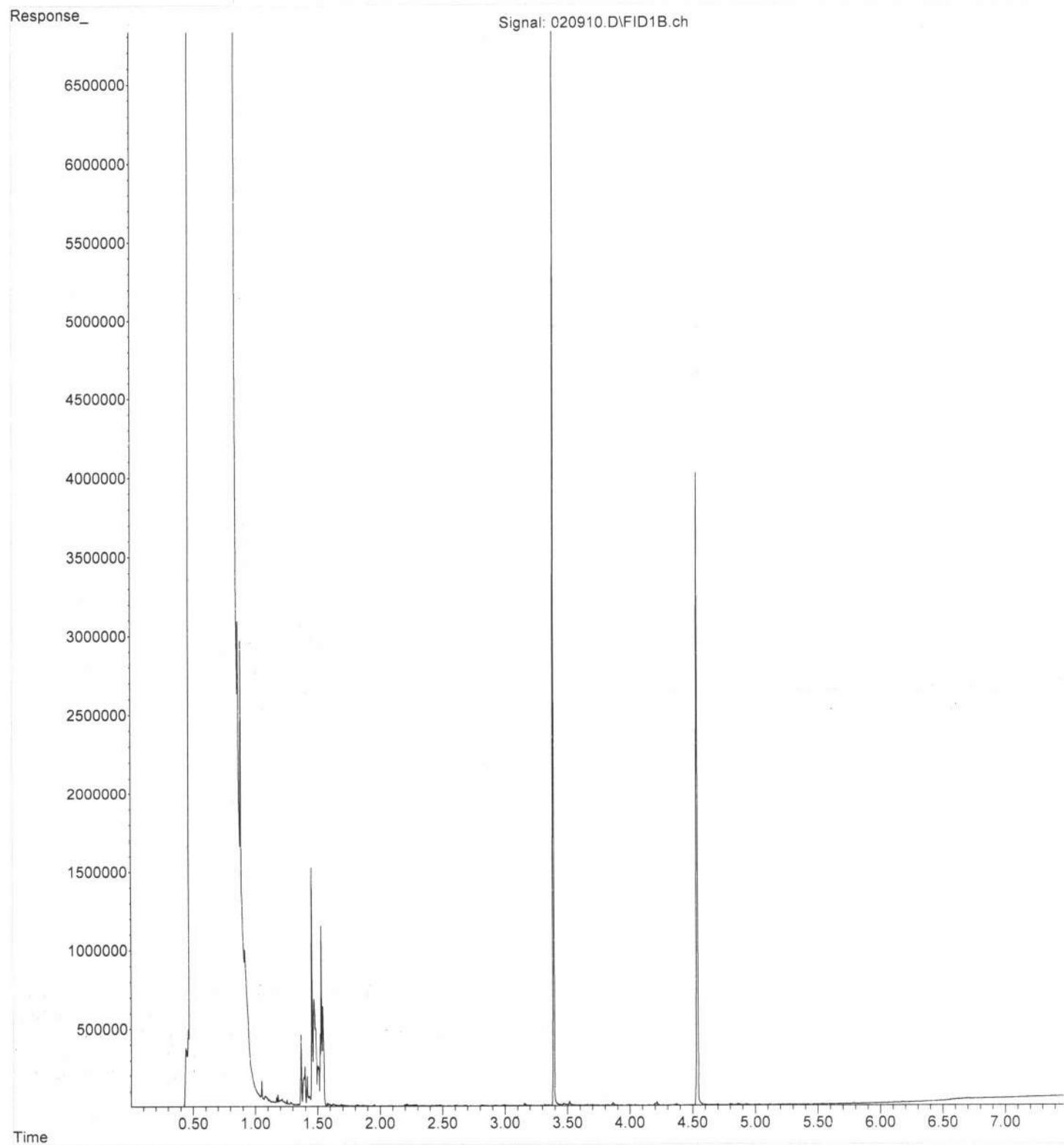
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Operator : TL
Acquired : 09 Feb 2024 11:38 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402114-02
Misc Info :
Vial Number: 17

ERR



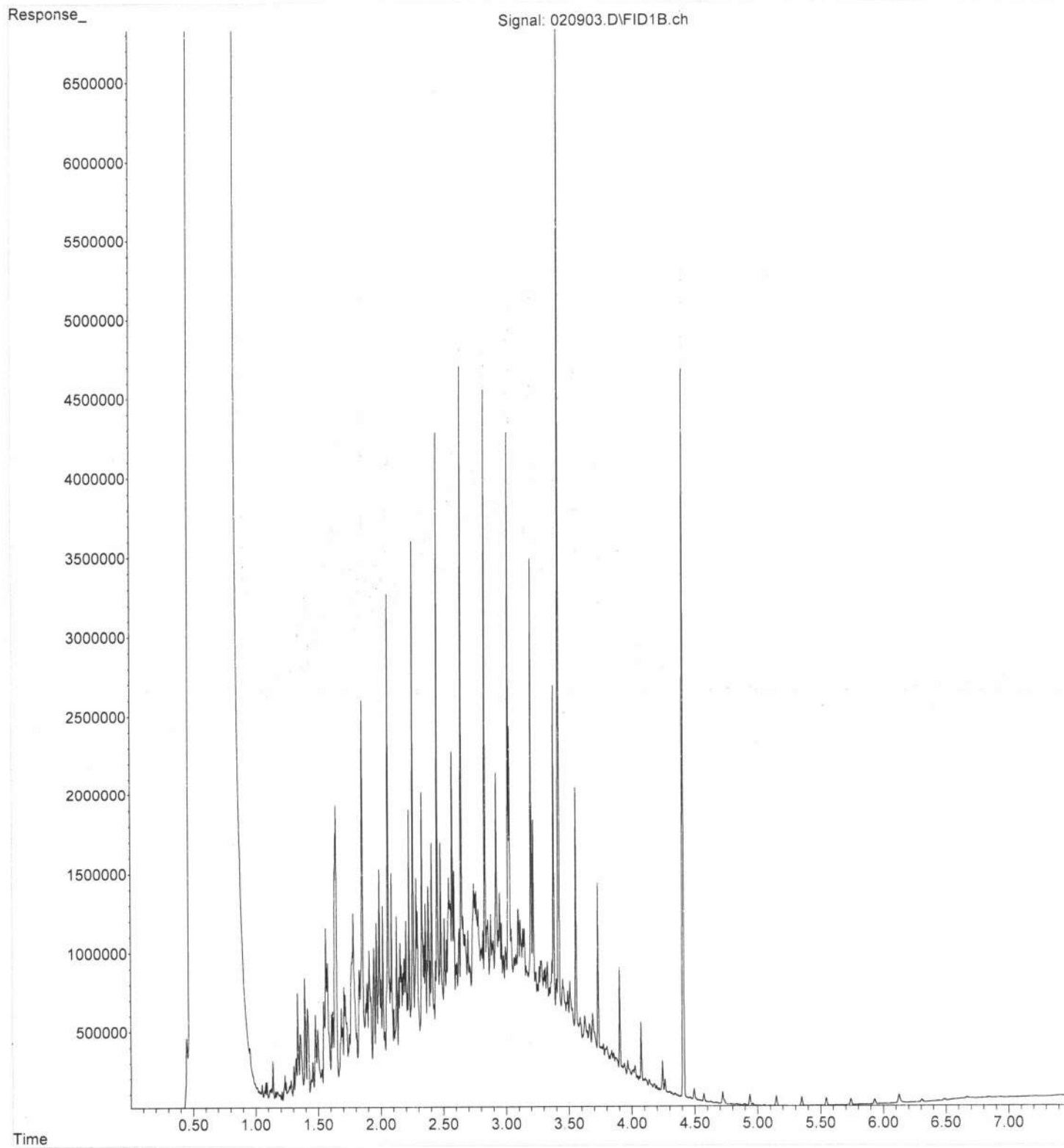
File : P:\Proc_GC14\02-09-24\020910.D
Operator : TL
Acquired : 09 Feb 2024 10:17 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-336 mb2
Misc Info :
Vial Number: 10

ERR



File : P:\Proc_GC14\02-09-24\020903.D
Operator : TL
Acquired : 09 Feb 2024 08:55 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 20, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 7, 2024 from the Whidbey Marine 0204475, F&BI 402092 project. There are 39 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0220R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 7, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475, F&BI 402092 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402092 -01 | MW-19D-W |
| 402092 -02 | MW-20D-W |
| 402092 -03 | MW-21D-W |
| 402092 -04 | DUP-01 |
| 402092 -05 | Trip Blank |

The samples were sent to Fremont Analytical for TOC, nitrate, nitrite, sulfate, chloride, ammonia, alkalinity, sulfide, and dissolved gases analyses. The report is enclosed.

The dissolved metals samples were filtered at Friedman and Bruya. The data were flagged accordingly.

The 8260D calibration standard did not meet the acceptance criteria for acetone and 2-butanone. The data were flagged accordingly.

The 8270E calibration standard associated with sample MW-19D-W did not meet the acceptance criteria for 2,4,6-tribromophenol surrogate. The data were flagged accordingly.

The NWTPH-Dx diesel calibration standard exceeded the acceptance criteria for the silica gel analysis of samples MW-21D-W and DUP-01. No material was detected in that range, therefore this did not represent an out of control condition, and the data were qualified with a "k" qualifier.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-19D-W 402092-01 | <100 | 115 |
| MW-20D-W 402092-02 | <100 | 116 |
| MW-21D-W 402092-03 | 6,600 | 135 |
| DUP-01 402092-04 | 6,100 | 132 |
| Method Blank 04-203 MB | <100 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/16/24 and 02/19/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|----------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) (Limit 41-152) |
| MW-19D-W 402092-01 | <50 | <250 | 95 |
| MW-20D-W 402092-02 | <50 | <250 | 99 |
| MW-21D-W 402092-03 | 1,400 x | <250 k | 103 |
| DUP-01 402092-04 | 1,500 x | <250 k | 95 |
| Method Blank 04-325 MB2 | <50 | <250 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/08/24

Date Analyzed: 02/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-19D-W 402092-01 | <50 | <250 | 94 |
| MW-20D-W 402092-02 | 110 x | <250 | 94 |
| MW-21D-W 402092-03 | 1,600 x | <250 | 103 |
| DUP-01 402092-04 | 1,600 x | <250 | 90 |
| Method Blank 04-325 MB2 | <50 | <250 | 112 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-01.071 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 10.9 |
| Lead | <1 |
| Manganese | 73.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-02.138 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 1.61 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 x100 |
| Date Analyzed: | 02/13/24 | Data File: | 402092-02 x100.048 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 1,180 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-03.140 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|------|
| Arsenic | 1.51 |
| Lead | 2.53 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 x10 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-03 x10.139 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 189 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | DUP-01 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/12/24 | Data File: | 402092-04.142 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 1.30 |
| Lead | 2.21 |
| Manganese | 147 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|------------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-100 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-100 mb.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/08/24 | Data File: | 402092-01.065 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 13.4 |
| Lead | 1.15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-02.198 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 4.46 |
| Lead | 1.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-03.199 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 3.41 |
| Lead | 5.10 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|------------------------|
| Client ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/09/24 | Data File: | 402092-04.200 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 2.48 |
| Lead | 3.58 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | I4-99 mb |
| Date Analyzed: | 02/08/24 | Data File: | I4-99 mb.049 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/09/24 | Data File: | 020911.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 020912.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 78 | 126 |
| Toluene-d8 | 93 | 84 | 115 |
| 4-Bromofluorobenzene | 107 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 3.3 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 2.1 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | 0.37 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-03 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020913.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 101 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | 54 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 91 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 360 |
| Hexane | <50 | o-Xylene | 140 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | <10 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 28 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 120 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 ca | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 350 |
| Benzene | <0.35 j | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 94 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 402092-04 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020914.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 104 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | 55 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 84 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 340 |
| Hexane | <50 | o-Xylene | 130 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | <10 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 27 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 120 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 ca | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 340 |
| Benzene | <0.35 j | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 98 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/09/24 | Lab ID: | 04-0311 mb |
| Date Analyzed: | 02/09/24 | Data File: | 020909.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 78 | 126 |
| Toluene-d8 | 93 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-19D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-01 |
| Date Analyzed: | 02/08/24 | Data File: | 020818.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 86 | 11 | 173 |
| 2-Fluorobiphenyl | 76 | 25 | 128 |
| 2,4,6-Tribromophenol | 78 ca | 10 | 140 |
| Terphenyl-d14 | 77 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | 0.028 |
| Pyrene | 0.020 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-20D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-02 |
| Date Analyzed: | 02/09/24 | Data File: | 020906.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 15 | 144 |
| 2-Fluorobiphenyl | 80 | 25 | 128 |
| 2,4,6-Tribromophenol | 86 | 10 | 142 |
| Terphenyl-d14 | 92 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.58 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 |
| Date Analyzed: | 02/09/24 | Data File: | 020907.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 | 15 | 144 |
| 2-Fluorobiphenyl | 70 | 25 | 128 |
| 2,4,6-Tribromophenol | 87 | 10 | 142 |
| Terphenyl-d14 | 83 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 37 ve |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 9.1 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.040 |
| Fluorene | 0.061 |
| Phenanthrene | 0.042 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | MW-21D-W | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-03 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020917.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 74 d | 15 | 144 |
| 2-Fluorobiphenyl | 68 d | 25 | 128 |
| 2,4,6-Tribromophenol | 89 d | 10 | 142 |
| Terphenyl-d14 | 79 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 39 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 |
| Date Analyzed: | 02/09/24 | Data File: | 020910.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 15 | 144 |
| 2-Fluorobiphenyl | 69 | 25 | 128 |
| 2,4,6-Tribromophenol | 90 | 10 | 142 |
| Terphenyl-d14 | 87 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 39 ve |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 9.5 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.040 |
| Fluorene | 0.063 |
| Phenanthrene | 0.040 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|------------------------|
| Client Sample ID: | DUP-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/07/24 | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 402092-04 1/10 |
| Date Analyzed: | 02/09/24 | Data File: | 020918.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 d | 15 | 144 |
| 2-Fluorobiphenyl | 67 d | 25 | 128 |
| 2,4,6-Tribromophenol | 93 d | 10 | 142 |
| Terphenyl-d14 | 82 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 42 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475 |
| Date Extracted: | 02/08/24 | Lab ID: | 04-0335 mb |
| Date Analyzed: | 02/08/24 | Data File: | 020811a.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 | 15 | 144 |
| 2-Fluorobiphenyl | 65 | 25 | 128 |
| 2,4,6-Tribromophenol | 75 | 10 | 142 |
| Terphenyl-d14 | 91 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

Date Extracted: 02/15/24

Date Analyzed: 02/16/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-19D-W 402092-01 | 53 |
| MW-20D-W 402092-02 | 360 |
| MW-21D-W 402092-03 | 310 |
| DUP-01 402092-04 | 160 |
| Method Blank 14-0120 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 402099-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 96 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 10.8 | 102 b | 98 b | 75-125 | 4 b |
| Lead | ug/L (ppb) | 10 | <1 | 86 | 87 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 76.4 | 114 b | 106 b | 75-125 | 7 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 86 | 80-120 |
| Lead | ug/L (ppb) | 10 | 89 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 88 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 13.4 | 95 b | 97 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | 1.15 | 81 | 78 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 95 | 80-120 |
| Lead | ug/L (ppb) | 10 | 93 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402092-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 93 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 107 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 102 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 101 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 83 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 58 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 110 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 102 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 112 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 100 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 91 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 99 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 104 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 104 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 95 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 106 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 98 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 98 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 104 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 96 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 106 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 111 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 101 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 120 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 123 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 117 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 112 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 112 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 120 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 118 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 89 | 84 | 46-206 | 6 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 99 | 59-132 | 6 |
| Vinyl chloride | ug/L (ppb) | 10 | 98 | 92 | 64-142 | 6 |
| Bromomethane | ug/L (ppb) | 10 | 90 | 88 | 50-197 | 2 |
| Chloroethane | ug/L (ppb) | 10 | 96 | 90 | 70-130 | 6 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 80 | 84 | 51-159 | 5 |
| Acetone | ug/L (ppb) | 50 | 58 | 52 | 10-140 | 11 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 92 | 87 | 64-140 | 6 |
| Hexane | ug/L (ppb) | 10 | 105 | 100 | 54-136 | 5 |
| Methylene chloride | ug/L (ppb) | 10 | 96 | 90 | 43-134 | 6 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 98 | 93 | 70-130 | 5 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 95 | 89 | 70-130 | 7 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 97 | 92 | 70-130 | 5 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 108 | 97 | 64-148 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 94 | 70-130 | 2 |
| Chloroform | ug/L (ppb) | 10 | 93 | 86 | 70-130 | 8 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 90 | 89 | 47-112 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 95 | 93 | 70-130 | 2 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 90 | 86 | 70-130 | 5 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 93 | 89 | 70-130 | 4 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 103 | 98 | 70-130 | 5 |
| Benzene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 91 | 90 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 92 | 93 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| Dibromomethane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 106 | 105 | 68-130 | 1 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 95 | 69-131 | 2 |
| Toluene | ug/L (ppb) | 10 | 97 | 93 | 70-130 | 4 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 94 | 90 | 70-130 | 4 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 92 | 86 | 45-138 | 7 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| Tetrachloroethene | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromochloromethane | ug/L (ppb) | 10 | 102 | 99 | 60-148 | 3 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | 97 | 95 | 70-130 | 2 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 91 | 70-130 | 5 |
| m,p-Xylene | ug/L (ppb) | 20 | 97 | 92 | 70-130 | 5 |
| o-Xylene | ug/L (ppb) | 10 | 93 | 87 | 70-130 | 7 |
| Styrene | ug/L (ppb) | 10 | 93 | 89 | 70-130 | 4 |
| Isopropylbenzene | ug/L (ppb) | 10 | 92 | 85 | 70-130 | 8 |
| Bromoform | ug/L (ppb) | 10 | 115 | 109 | 69-138 | 5 |
| n-Propylbenzene | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 102 | 96 | 70-130 | 6 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 100 | 94 | 70-130 | 6 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 118 | 113 | 70-130 | 4 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 114 | 109 | 70-130 | 4 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 100 | 95 | 70-130 | 5 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 102 | 98 | 70-130 | 4 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 103 | 98 | 70-130 | 5 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 104 | 98 | 70-130 | 6 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 96 | 70-130 | 7 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 96 | 70-130 | 5 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 100 | 96 | 70-130 | 4 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 113 | 108 | 70-130 | 5 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 105 | 96 | 70-130 | 9 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 109 | 98 | 70-130 | 11 |
| Naphthalene | ug/L (ppb) | 10 | 117 | 107 | 70-130 | 9 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 110 | 99 | 70-130 | 11 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 5 | 66 | 64 | 50-104 | 3 |
| 2-Methylnaphthalene | ug/L (ppb) | 5 | 71 | 69 | 52-113 | 3 |
| 1-Methylnaphthalene | ug/L (ppb) | 5 | 69 | 67 | 51-115 | 3 |
| Acenaphthylene | ug/L (ppb) | 5 | 80 | 78 | 60-114 | 3 |
| Acenaphthene | ug/L (ppb) | 5 | 77 | 76 | 57-110 | 1 |
| Fluorene | ug/L (ppb) | 5 | 84 | 84 | 61-115 | 0 |
| Phenanthrene | ug/L (ppb) | 5 | 84 | 86 | 63-113 | 2 |
| Anthracene | ug/L (ppb) | 5 | 86 | 89 | 65-117 | 3 |
| Fluoranthene | ug/L (ppb) | 5 | 92 | 95 | 68-121 | 3 |
| Pyrene | ug/L (ppb) | 5 | 88 | 90 | 62-133 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 5 | 89 | 94 | 66-131 | 5 |
| Chrysene | ug/L (ppb) | 5 | 91 | 95 | 66-129 | 4 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 95 | 101 | 66-129 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 88 | 92 | 55-144 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 92 | 99 | 58-139 | 7 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 103 | 105 | 62-136 | 2 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 99 | 102 | 55-146 | 3 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 5 | 97 | 100 | 58-137 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/20/24

Date Received: 02/07/24

Project: Whidbey Marine 0204475, F&BI 402092

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 112 | 112 | 35-146 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

F3/K4/VW2

Page # 1 of 1
TURNAROUND TIME

☒ Standard turnaround
☐ RUSH _____
Rush charges authorized by: _____

SAMPLE DISPOSAL

Default: Dispose after 30 days

| | | | | | | | | | | | ANALYSES REQUESTED → Total & dissolved | | | | | | | | | | |
|---------------------|--------|--------------|--------------|-------------|-----------|---------------|----------|---------------------|------------|---------------|--|------------------------------|-----|-----|----------------|------------|--|--|--|--|--|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx W/SO | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Lead & Arsenic PCBs EPA 8060 | TOC | TSS | EDB, EDC, MTBE | Griodhem * | Notes | | | | |
| MU-1AD-W | 01A-N | 2/6/24 | 1025 | W | 14 | X | X | | | X | X | X | X | X | X | X | Missing Spout Mel analog. | | | | |
| MU-ZOD-W | 02A-O | | 1425 | | 15 | | | | | | | | | | | | Provide chromatogram for TTK analysis. ATV samples | | | | |
| MU-ZID-W | 03 | | 1245 | | 15 | | | | | | | | | | | | | | | | |
| DUP-01 | 04 ↑ | | 1300 | ↑ | 15 | ↑ | ↑ | | | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | | | | | |
| Trip Blank AP 02/07 | 05 A-B | ↑ | - | water | 2 | | | | | | | | | | | | Anions: Nitrate, nitrite, chloride, sulfate, ammonia | | | | |
| | | | | | | | | Samples received at | 2 | | | | °C | | | | Sulfide methane, ethane, etc. | | | | |
| | | | | | | | | | | | | | | | | | dissolved Ferrous manganese | | | | |

TIME

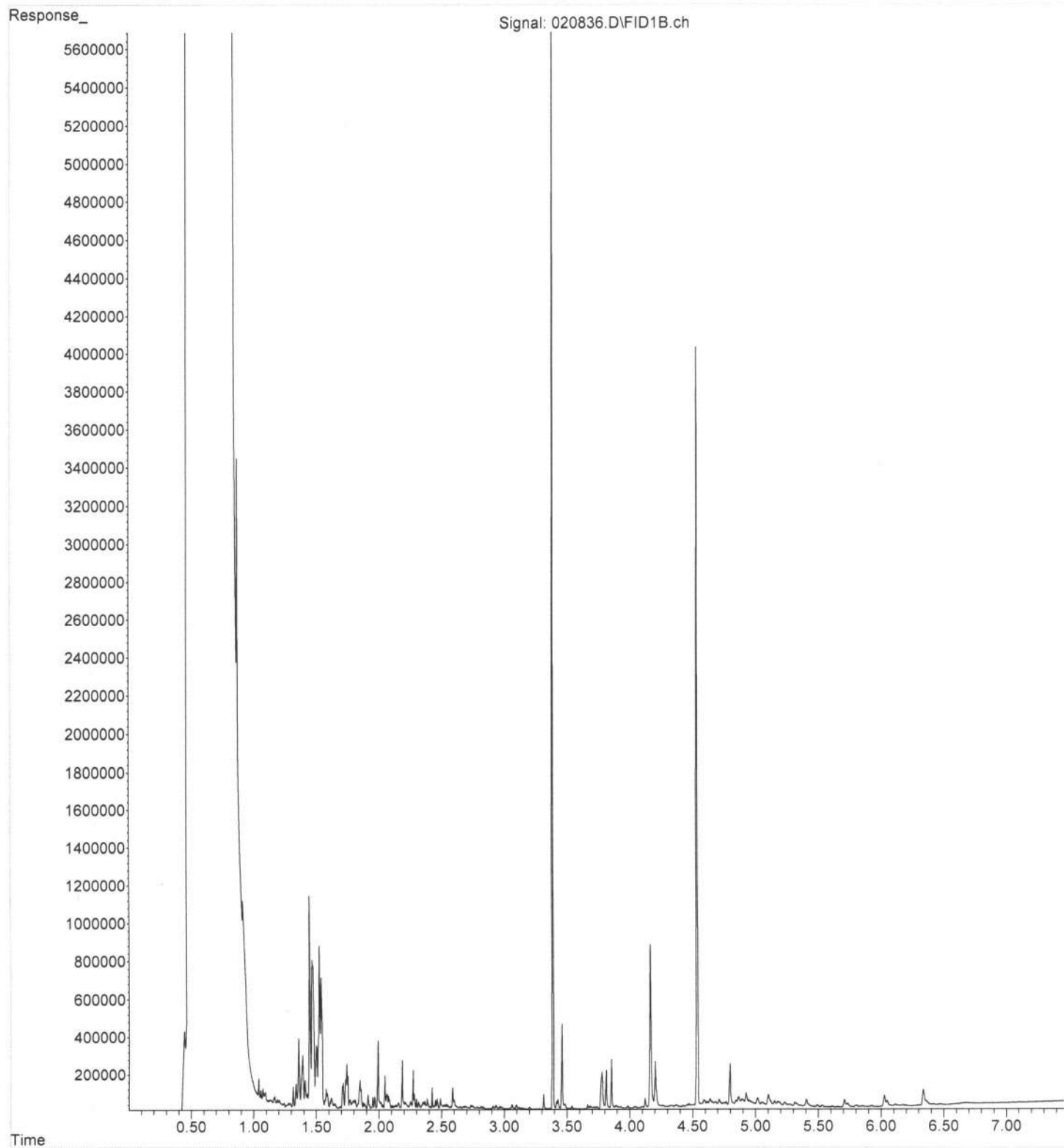
1105

1

100

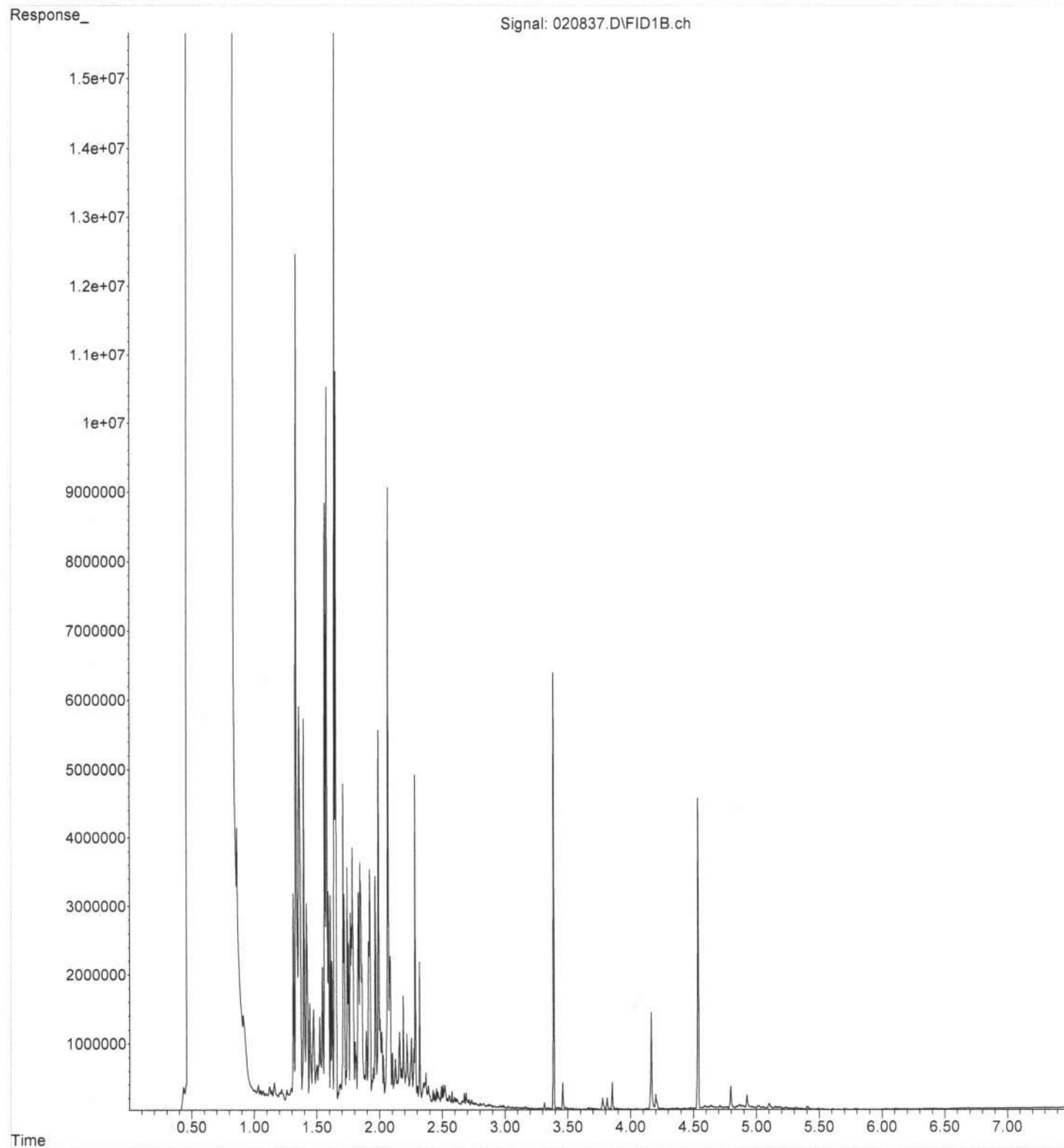
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Operator : TL
Acquired : 08 Feb 2024 07:26 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-02
Misc Info :
Vial Number: 29

ERR



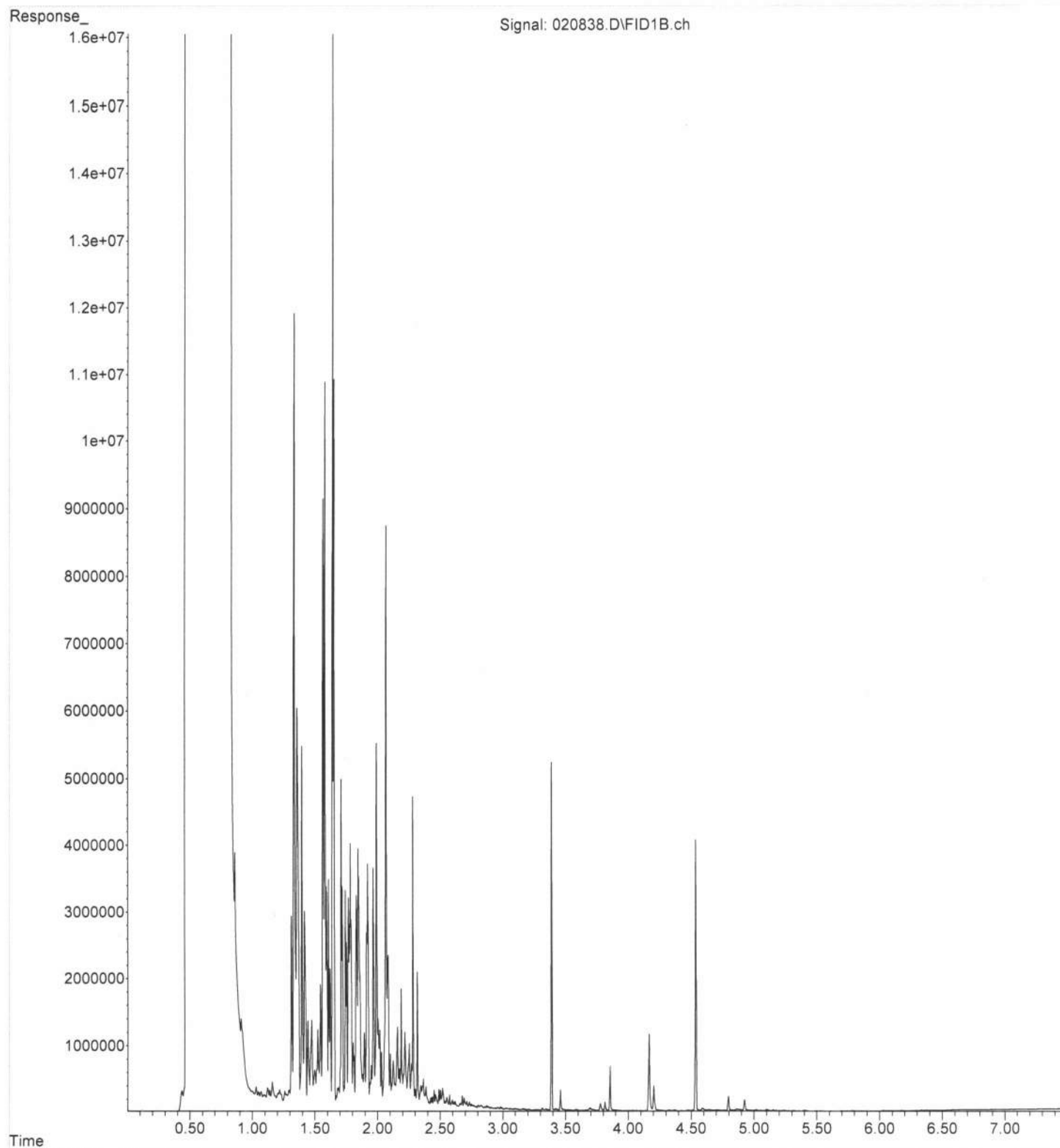
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Operator : TL
Acquired : 08 Feb 2024 07:38 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-03
Misc Info :
Vial Number: 30

ERR



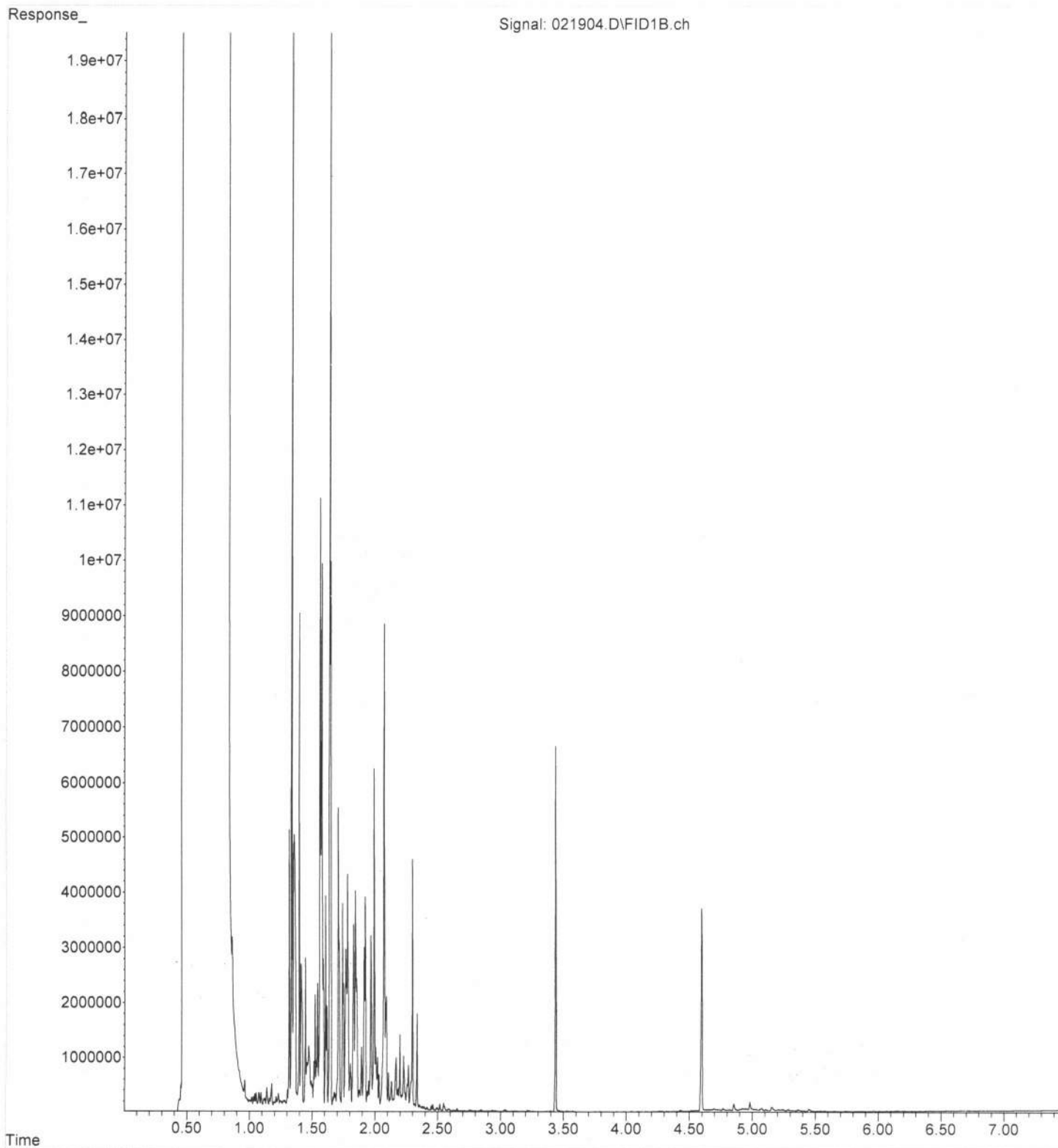
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Operator : TL
Acquired : 08 Feb 2024 07:50 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-04
Misc Info :
Vial Number: 31

ERR



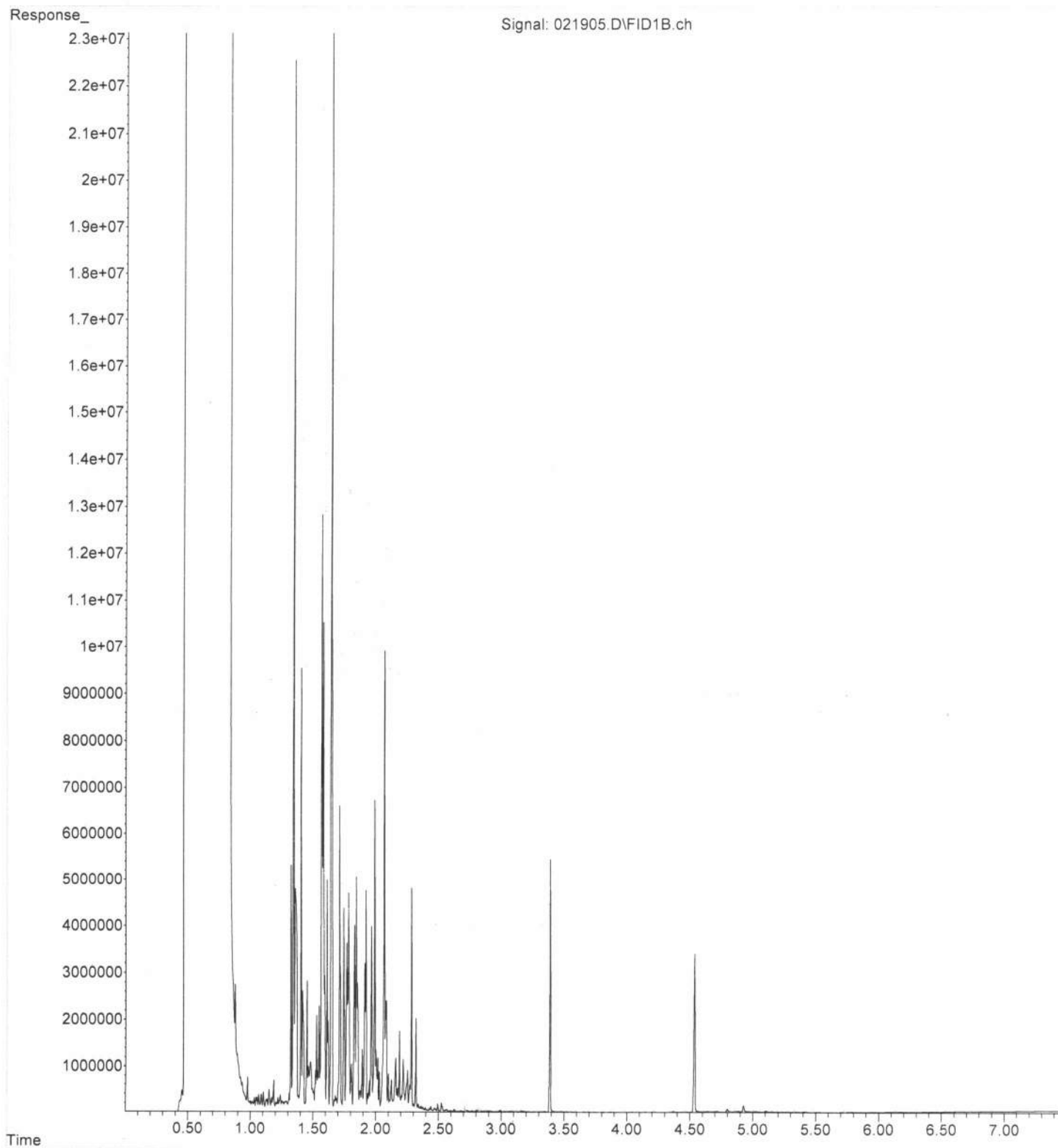
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Operator : TL
Acquired : 19 Feb 2024 08:57 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-03 sg rr
Misc Info :
Vial Number: 6

ERR



File :P:\Proc_GC14\02-19-24\021905.D
Operator : TL
Acquired : 19 Feb 2024 09:08 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 402092-04 sg rr
Misc Info :
Vial Number: 7

ERR



Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402092
Work Order Number: 2402100

February 14, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 4 sample(s) on 2/7/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Bames
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

CLIENT: Friedman & Bruya
Project: 402092
Work Order: 2402100

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 2402100-001 | MW-19D-W | 02/06/2024 10:25 AM | 02/07/2024 12:10 PM |
| 2402100-002 | MW-20D-W | 02/06/2024 2:25 PM | 02/07/2024 12:10 PM |
| 2402100-003 | MW-21D-W | 02/06/2024 12:45 PM | 02/07/2024 12:10 PM |
| 2402100-004 | DUP-01 | 02/06/2024 1:00 PM | 02/07/2024 12:10 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 402092

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-001

Collection Date: 2/6/2024 10:25:00 AM

Client Sample ID: MW-19D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | 0.0595 | 0.00675 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:01:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 34.8 | 2.40 | D | mg/L | 20 | 2/8/2024 2:44:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 8:43:00 PM |
| Nitrate (as N) | 38.9 | 2.00 | DH | mg/L | 20 | 2/8/2024 2:44:00 PM |
| Nitrate (as N) | 34.7 | 0.500 | DE | mg/L | 5 | 2/7/2024 8:43:00 PM |
| Sulfate | 27.6 | 3.00 | D | mg/L | 5 | 2/7/2024 8:43:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.80 | 0.700 | | mg/L | 1 | 2/9/2024 11:35:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 118 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:52:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.205 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-002

Collection Date: 2/6/2024 2:25:00 PM

Client Sample ID: MW-20D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | 0.0142 | 0.00675 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:03:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 7.94 | 0.600 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Nitrate (as N) | 1.30 | 0.500 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| Sulfate | 9.69 | 3.00 | D | mg/L | 5 | 2/7/2024 9:06:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 1.62 | 0.700 | | mg/L | 1 | 2/10/2024 12:39:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 170 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:07:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.247 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-003

Collection Date: 2/6/2024 12:45:00 PM

Client Sample ID: MW-21D-W

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:05:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 52.4 | 2.40 | D | mg/L | 20 | 2/8/2024 3:07:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| Nitrate (as N) | 1.37 | 0.500 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| Sulfate | 7.48 | 3.00 | D | mg/L | 5 | 2/7/2024 9:29:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 2.14 | 0.700 | | mg/L | 1 | 2/10/2024 1:12:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 135 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:12:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.207 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

Work Order: **2402100**
Date Reported: **2/14/2024**

CLIENT: Friedman & Bruya
Project: 402092

Lab ID: 2402100-004

Collection Date: 2/6/2024 1:00:00 PM

Client Sample ID: DUP-01

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R89609 | | Analyst: LB |
| Methane | ND | 0.00675 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/13/2024 10:09:00 AM |
| <u>Ion Chromatography by EPA Method 300.0</u> | | | | Batch ID: 42857 | | Analyst: FG |
| Chloride | 51.9 | 2.40 | D | mg/L | 20 | 2/8/2024 3:30:00 PM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| Nitrate (as N) | 1.37 | 0.500 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| Sulfate | 7.46 | 3.00 | D | mg/L | 5 | 2/7/2024 9:52:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R89535 | | Analyst: FG |
| Total Organic Carbon | 2.23 | 0.700 | | mg/L | 1 | 2/10/2024 1:43:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R89603 | | Analyst: SS |
| Alkalinity, Total (As CaCO ₃) | 138 | 2.50 | | mg/L | 1 | 2/14/2024 10:15:37 AM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 42892 | | Analyst: FG |
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 2:34:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R89559 | | Analyst: FG |
| Sulfide | 0.151 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |

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QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-R89603 | | SampType: MBLK | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | | |
| Client ID: MBLKW | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870587 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: LCS-R89603 | | SampType: LCS | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | | |
| Client ID: LCSW | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870588 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 103 | 2.50 | 100.0 | 0 | 103 | 86.2 | 126.2 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: 2402100-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 2/14/2024 | | | RunNo: 89603 | | | |
| Client ID: MW-19D-W | | Batch ID: R89603 | | | | | Analysis Date: 2/14/2024 | | | SeqNo: 1870590 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 112 | 2.50 | | | | | | 117.9 | 5.26 | 20 | | |

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QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | | |
|----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MBLKW | Batch ID: 42892 | | Analysis Date: 2/12/2024 | SeqNo: 1869931 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | | |

| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | | |
|-----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Client ID: LCSW | Batch ID: 42892 | | Analysis Date: 2/12/2024 | SeqNo: 1869932 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | | |

| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | | |
|-----------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | Analysis Date: 2/12/2024 | SeqNo: 1869934 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | | |

| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | | |
|----------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | Analysis Date: 2/12/2024 | SeqNo: 1869935 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | | |

| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89575 | | | | | | | | |
|-----------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|--|
| Client ID: BATCH | Batch ID: 42892 | | Analysis Date: 2/12/2024 | SeqNo: 1869936 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | | |

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QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42857 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/7/2024 | | | | RunNo: 89527 | | |
| Client ID: MBLKW | Batch ID: 42857 | Analysis Date: 2/7/2024 | | | | | | | SeqNo: 1868986 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-42857 | SampType: LCS | Units: mg/L | | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | | |
| Client ID: LCSW | Batch ID: 42857 | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868987 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.778 | 0.120 | 0.7500 | 0 | 104 | 90 | 110 | | | | |
| Nitrite (as N) | 0.769 | 0.120 | 0.7500 | 0 | 103 | 90 | 110 | | | | |
| Nitrate (as N) | 0.794 | 0.100 | 0.7500 | 0 | 106 | 90 | 110 | | | | |
| Sulfate | 3.89 | 0.600 | 3.750 | 0 | 104 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2402039-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | | Analysis Date: 2/7/2024 | | | | SeqNo: 1868994 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 54.3 | 2.40 | | | | | | 56.26 | 3.51 | 20 | D | |
| Nitrite (as N) | ND | 2.40 | | | | | | 0 | | 20 | D | |
| Nitrate (as N) | ND | 2.00 | | | | | | 0 | | 20 | D | |
| Sulfate | ND | 12.0 | | | | | | 0 | | 20 | D | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402039-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | Batch ID: 42857 | | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868995 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 69.7 | 2.40 | 15.00 | 56.26 | 89.7 | 80 | 120 | | | | D |
| Nitrite (as N) | 14.9 | 2.40 | 15.00 | 0 | 99.3 | 80 | 120 | | | | D |
| Nitrate (as N) | 15.6 | 2.00 | 15.00 | 0.4400 | 101 | 80 | 120 | | | | D |

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QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2402039-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | | Analysis Date: 2/7/2024 | | | | SeqNo: 1868995 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfate | 81.1 | 12.0 | 75.00 | 6.240 | 99.8 | 80 | 120 | | | | D | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402039-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 2/7/2024 | | | RunNo: 89527 | | |
| Client ID: BATCH | | Batch ID: 42857 | | Analysis Date: 2/7/2024 | | | | | SeqNo: 1868996 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 71.5 | 2.40 | 15.00 | 56.26 | 102 | 80 | 120 | 69.72 | 2.52 | 20 | D |
| Nitrite (as N) | 15.4 | 2.40 | 15.00 | 0 | 103 | 80 | 120 | 14.90 | 3.56 | 20 | D |
| Nitrate (as N) | 16.1 | 2.00 | 15.00 | 0.4400 | 104 | 80 | 120 | 15.56 | 3.16 | 20 | D |
| Sulfate | 84.3 | 12.0 | 75.00 | 6.240 | 104 | 80 | 120 | 81.06 | 3.90 | 20 | D |

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Project: 402092

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R89559 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MBLKW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869569 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R89559 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: LCSW | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869570 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.221 | 0.0500 | 0.2000 | 0 | 111 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869626 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.0614 | 0.0500 | | | | | | 0.06724 | 9.01 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869627 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.279 | 0.0500 | 0.2000 | 0.06724 | 106 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869628 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.292 | 0.0500 | 0.2000 | 0.06724 | 112 | 80 | 120 | 0.2793 | 4.46 | 20 | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|-----------------------|---------------------|----------|------|
| Sample ID: 2402099-009CDUP | SampType: DUP | Units: mg/L | | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | | |
| Client ID: BATCH | Batch ID: R89559 | Analysis Date: 2/12/2024 | | | | | | SeqNo: 1869640 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | |
|-----------------------------|-------------------------|--------------------------------|-----------|----------------------------|--|
| Sample ID: MB-R89535 | SampType: MBLK | Units: mg/L | | Prep Date: 2/8/2024 | RunNo: 89535 |
| Client ID: MBLKW | Batch ID: R89535 | Analysis Date: 2/8/2024 | | SeqNo: 1869134 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Total Organic Carbon ND 0.700

| | | | | | |
|------------------------------|-------------------------|--------------------------------|-----------|----------------------------|--|
| Sample ID: LCS-R89535 | SampType: LCS | Units: mg/L | | Prep Date: 2/8/2024 | RunNo: 89535 |
| Client ID: LCSW | Batch ID: R89535 | Analysis Date: 2/8/2024 | | SeqNo: 1869135 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Total Organic Carbon 5.05 0.700 5.000 0 101 90 116

| | | | | | |
|-----------------------------------|-------------------------|--------------------------------|-----------|----------------------------|--|
| Sample ID: 2402046-001ADUP | SampType: DUP | Units: mg/L-dry | | Prep Date: 2/8/2024 | RunNo: 89535 |
| Client ID: BATCH | Batch ID: R89535 | Analysis Date: 2/8/2024 | | SeqNo: 1869138 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Total Organic Carbon 22.0 2.24

| | | | | | |
|----------------------------------|-------------------------|--------------------------------|-----------|----------------------------|--|
| Sample ID: 2402064-001AMS | SampType: MS | Units: mg/L | | Prep Date: 2/8/2024 | RunNo: 89535 |
| Client ID: BATCH | Batch ID: R89535 | Analysis Date: 2/8/2024 | | SeqNo: 1869139 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Total Organic Carbon 11.5 0.700 5.000 7.032 88.9 41.1 150

| | | | | | |
|-----------------------------------|-------------------------|--------------------------------|-----------|----------------------------|--|
| Sample ID: 2402064-001AMSD | SampType: MSD | Units: mg/L | | Prep Date: 2/8/2024 | RunNo: 89535 |
| Client ID: BATCH | Batch ID: R89535 | Analysis Date: 2/8/2024 | | SeqNo: 1869140 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Total Organic Carbon 11.8 0.700 5.000 7.032 94.5 41.1 150 11.48 2.44 30

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402100-001CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/9/2024 | | | RunNo: 89535 | | |
| Client ID: MW-19D-W | | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869477 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2402100-001CMS | | SampType: MS | | Units: mg/L | | Prep Date: 2/10/2024 | | RunNo: 89535 | | | |
| Client ID: MW-19D-W | | Batch ID: R89535 | | | | Analysis Date: 2/10/2024 | | SeqNo: 1869438 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | |

Work Order: 2402100
CLIENT: Friedman & Bruya
Project: 402092

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89609 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: LCSW | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | SeqNo: 1870671 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|-----|------|-----|--|--|--|--|
| Methane | 1,070 | 0.00675 | 1,000 | 0 | 107 | 73.6 | 124 | | | | |
| Ethene | 1,040 | 0.0146 | 1,000 | 0 | 104 | 76.3 | 122 | | | | |
| Ethane | 1,060 | 0.0151 | 1,000 | 0 | 106 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R89609 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: MBLKW | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | | | SeqNo: 1870670 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402099-007DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 2/13/2024 | | | RunNo: 89609 | | |
| Client ID: BATCH | | Batch ID: R89609 | | | Analysis Date: 2/13/2024 | | | | | SeqNo: 1870653 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|--|--|--|--|--|-------|------|----|---|
| Methane | 6.50 | 0.00675 | | | | | | 5.420 | 18.1 | 30 | E |
| Ethene | 0.116 | 0.0146 | | | | | | 0 | 200 | 30 | |
| Ethane | 0.153 | 0.0151 | | | | | | 0 | 200 | 30 | |

Sample Log-In Check List

Client Name: FB

Work Order Number: 2402100

Logged by: Morgan Wilson

Date Received: 2/7/2024 12:10:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
H2SO4
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402 100

TURNAROUND TIME

PO#

D-668

REMARKS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

SAMPLE DISPOSAL

Return samples

Will call with instructions

ANALYSES REQUESTED

Notes

SIGNATURE

PRINT NAME _____

COMPANY

DATE _____

TIME

Relinquished by:

Michael Erdahl

Friedman & Bruya

2/26/

6

~~Received by:~~

11/24

1-A)

2/17/17

10/2

Relinquished by:

Relinquished by:

Relinquished by:

Received by:

Received by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 21, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on February 1, 2024 from the Whidbey Marine 0204475-001, F&BI 402019 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0221R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 1, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402019 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402019 -01 | HA-4-S1 |
| 402019 -02 | HA-4-S2 |
| 402019 -03 | HA-4-S3 |
| 402019 -04 | HA-4-S4 |
| 402019 -05 | HA-4-S5 |
| 402019 -06 | HA-4-S6 |

Samples HA-4-S2, HA-4-S4, and HA-4-S6 were sent to Fremont Analytical for total organic carbon analysis. In addition, sample HA-4-S4 was sent to Fremont for EPH and VPH analyses. The reports are enclosed.

The 8260D acetone calibration standard did not meet the acceptance criteria. The data were flagged accordingly.

The 8270E calibration standard failed the acceptance criteria for nitrobenzene-d5 surrogate. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: NA

Date Analyzed: 02/02/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|----------------------|-------------------|
| Laboratory ID | |
| HA-4-S1 402019-01 | 3 |
| HA-4-S2 402019-02 | 5 |
| HA-4-S3 402019-03 | 8 |
| HA-4-S4 402019-04 | 12 |
| HA-4-S5 402019-05 | 7 |
| HA-4-S6 402019-06 | 15 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/05/24

Date Analyzed: 02/05/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| HA-4-S1 402019-01 | <5 | 134 |
| HA-4-S2 402019-02 | <5 | 134 |
| HA-4-S3 402019-03 | <5 | 133 |
| HA-4-S4 402019-04 1/10 | 700 | 183 |
| HA-4-S6 402019-06 | 9.1 | 140 |
| Method Blank 04-199 MB | <5 | 132 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/05/24

Date Analyzed: 02/05/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-4-S5 402019-05 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 115 |
| Method Blank 04-199 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 116 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

Date Extracted: 02/02/24

Date Analyzed: 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-4-S1 402019-01 | <50 | <250 | 90 |
| HA-4-S2 402019-02 | <50 | <250 | 88 |
| HA-4-S3 402019-03 | <50 | <250 | 87 |
| HA-4-S4 402019-04 | <50 | <250 | 90 |
| HA-4-S5 402019-05 | <50 | <250 | 88 |
| HA-4-S6 402019-06 | <50 | <250 | 87 |
| Method Blank 04-291 MB | <50 | <250 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-01 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-01.095 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.57 |
| Lead | 2.92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-02 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-02.096 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.57 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-03 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-03.097 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.30 |
| Lead | 1.78 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-04 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-04.098 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.26 |
| Lead | 1.26 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-06 |
| Date Analyzed: | 02/02/24 | Data File: | 402019-06.099 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.98 |
| Lead | 1.97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | I4-80 mb2 |
| Date Analyzed: | 02/02/24 | Data File: | I4-80 mb2.038 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-01 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020619.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-02 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020620.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 94 | 84 | 120 |
| Toluene-d8 | 96 | 73 | 128 |
| 4-Bromofluorobenzene | 105 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-4-S3 | Client: Haley & Aldrich, Inc |
| Date Received: 02/01/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 02/06/24 | Lab ID: 402019-03 1/0.5 |
| Date Analyzed: 02/06/24 | Data File: 020621.D |
| Matrix: Soil | Instrument: GCMS13 |
| Units: mg/kg (ppm) Dry Weight | Operator: MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 100 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0024 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.018 |
| Hexane | <0.25 | o-Xylene | 0.0040 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | 0.0014 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.012 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-04 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020622.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 84 | 120 |
| Toluene-d8 | 110 | 73 | 128 |
| 4-Bromofluorobenzene | 119 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0098 |
| Hexane | 2.8 | o-Xylene | 0.0013 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | 0.068 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.26 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.18 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.33 |
| Benzene | <0.001 | sec-Butylbenzene | 0.49 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | 0.21 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0046 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-05 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020623.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 84 | 120 |
| Toluene-d8 | 100 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 402019-06 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020624.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 84 | 120 |
| Toluene-d8 | 104 | 73 | 128 |
| 4-Bromofluorobenzene | 98 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.52 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 2.1 |
| Hexane | <0.25 | o-Xylene | 0.80 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | 0.11 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.18 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.75 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.036 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.36 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/06/24 | Lab ID: | 04-0280 mb 1/0.5 |
| Date Analyzed: | 02/06/24 | Data File: | 020606.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 84 | 120 |
| Toluene-d8 | 94 | 73 | 128 |
| 4-Bromofluorobenzene | 101 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-01 1/5 |
| Date Analyzed: | 02/05/24 | Data File: | 020435.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 83 | 10 | 198 |
| 2-Fluorobiphenyl | 87 | 45 | 117 |
| 2,4,6-Tribromophenol | 72 | 11 | 158 |
| Terphenyl-d14 | 101 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-02 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020408.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 83 ca | 16 | 137 |
| 2-Fluorobiphenyl | 81 | 46 | 122 |
| 2,4,6-Tribromophenol | 66 | 17 | 154 |
| Terphenyl-d14 | 84 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-03 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020409.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 92 ca | 16 | 137 |
| 2-Fluorobiphenyl | 87 | 46 | 122 |
| 2,4,6-Tribromophenol | 71 | 17 | 154 |
| Terphenyl-d14 | 88 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-04 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020410.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 104 ca | 16 | 137 |
| 2-Fluorobiphenyl | 92 | 46 | 122 |
| 2,4,6-Tribromophenol | 75 | 17 | 154 |
| Terphenyl-d14 | 86 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | 0.15 |
| 1-Methylnaphthalene | 0.065 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.044 |
| Anthracene | 0.030 |
| Fluoranthene | 0.013 |
| Pyrene | 0.026 |
| Benz(a)anthracene | 0.027 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-4-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/01/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 402019-06 1/5 |
| Date Analyzed: | 02/04/24 | Data File: | 020412.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 96 ca | 16 | 137 |
| 2-Fluorobiphenyl | 92 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 87 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.024 |
| 2-Methylnaphthalene | 0.026 |
| 1-Methylnaphthalene | 0.011 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/02/24 | Lab ID: | 04-0292 mb 1/5 |
| Date Analyzed: | 02/05/24 | Data File: | 020434.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 91 | 10 | 198 |
| 2-Fluorobiphenyl | 97 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 105 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 402019-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|--------------------|------------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 1.0 | 96 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 95 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 100 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 103 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 402028-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 2,100 | 88 | 92 | 63-146 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 77-123 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402008-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 102 | 99 | 75-125 | 3 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 103 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 94 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401389-42 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 39 | 38 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 75 | 73 | 10-126 | 3 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 72 | 66 | 10-138 | 9 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 60 | 55 | 10-163 | 9 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 61 | 52 | 10-176 | 16 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 65 | 60 | 10-176 | 8 |
| Acetone | mg/kg (ppm) | 10 | <5 | 74 | 68 | 10-163 | 8 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 71 | 10-160 | 5 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 69 | 66 | 10-137 | 4 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 70 | 66 | 10-156 | 6 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 84 | 79 | 21-145 | 6 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 72 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 81 | 75 | 19-140 | 8 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 84 | 78 | 10-158 | 7 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 75 | 74 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 78 | 75 | 21-145 | 4 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 78 | 71 | 19-147 | 9 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 83 | 78 | 12-160 | 6 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 78 | 73 | 10-156 | 7 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 76 | 74 | 17-140 | 3 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 80 | 74 | 9-164 | 8 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 78 | 73 | 29-129 | 7 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 76 | 73 | 21-139 | 4 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 81 | 77 | 30-135 | 5 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 79 | 79 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 74 | 70 | 23-145 | 6 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 82 | 80 | 24-155 | 2 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 84 | 78 | 28-144 | 7 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 80 | 79 | 35-130 | 1 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 87 | 84 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 85 | 88 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <0.5 | 79 | 83 | 15-166 | 5 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 88 | 85 | 31-137 | 3 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 80 | 80 | 20-133 | 0 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 83 | 82 | 28-150 | 1 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 83 | 81 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 80 | 79 | 32-129 | 1 |
| Ethylbenzene | mg/kg (ppm) | 2 | 0.034 | 83 | 82 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 83 | 82 | 31-143 | 1 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 81 | 81 | 34-136 | 0 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 81 | 79 | 33-134 | 2 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 80 | 80 | 35-137 | 0 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 81 | 79 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 87 | 85 | 21-156 | 2 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 0.043 | 86 | 83 | 23-146 | 4 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 86 | 81 | 34-130 | 6 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 86 | 83 | 18-149 | 4 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 87 | 85 | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 91 | 87 | 25-144 | 4 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 85 | 83 | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 84 | 82 | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 85 | 82 | 30-137 | 4 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 0.038 | 86 | 83 | 10-182 | 4 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 89 | 84 | 23-145 | 6 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 0.83 | 91 b | 88 b | 21-149 | 3 b |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 80 | 78 | 30-131 | 3 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 84 | 80 | 29-129 | 5 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 83 | 79 | 31-132 | 5 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 85 | 86 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 82 | 80 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 98 | 97 | 10-142 | 1 |
| Naphthalene | mg/kg (ppm) | 2 | 0.088 | 84 | 81 | 14-157 | 4 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 85 | 82 | 20-144 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 104 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 91 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 70 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 67 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 87 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 89 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 94 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 100 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 91 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 96 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 92 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 95 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 91 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 92 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 95 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 97 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 100 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 91 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 95 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 95 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 93 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 90 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 95 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 96 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 89 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 96 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 98 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 99 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 102 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 106 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 106 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 106 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 99 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 103 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 105 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 99 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 100 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 99 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 100 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 97 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 102 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 99 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 106 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 110 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 108 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 109 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 118 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 105 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 107 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 104 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 108 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 102 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 107 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 113 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 105 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 106 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/21/24

Date Received: 02/01/24

Project: Whidbey Marine 0204475-001, F&BI 402019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 402019-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 81 | 28-125 | 0 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 83 | 10-192 | 2 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 79 | 10-163 | 2 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 88 | 86 | 45-128 | 2 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 85 | 36-125 | 2 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 87 | 48-121 | 3 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 87 | 46-122 | 4 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 89 | 30-144 | 3 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 98 | 93 | 50-150 | 5 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 91 | 40-134 | 0 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 92 | 50-150 | 0 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 95 | 50-150 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 98 | 98 | 50-150 | 0 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 92 | 94 | 50-150 | 2 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 100 | 98 | 50-150 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 101 | 99 | 40-140 | 2 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 99 | 96 | 41-136 | 3 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 96 | 94 | 29-139 | 2 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 85 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 87 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 82 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 89 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 88 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 90 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 91 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 91 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 94 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 96 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 100 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 95 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 99 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 104 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 103 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 101 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402019

SAMPLE CHAIN OF CUSTODY

02/01/24

B2/N2

Page # 1 of 1

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

PO #

Whidbey Marine0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

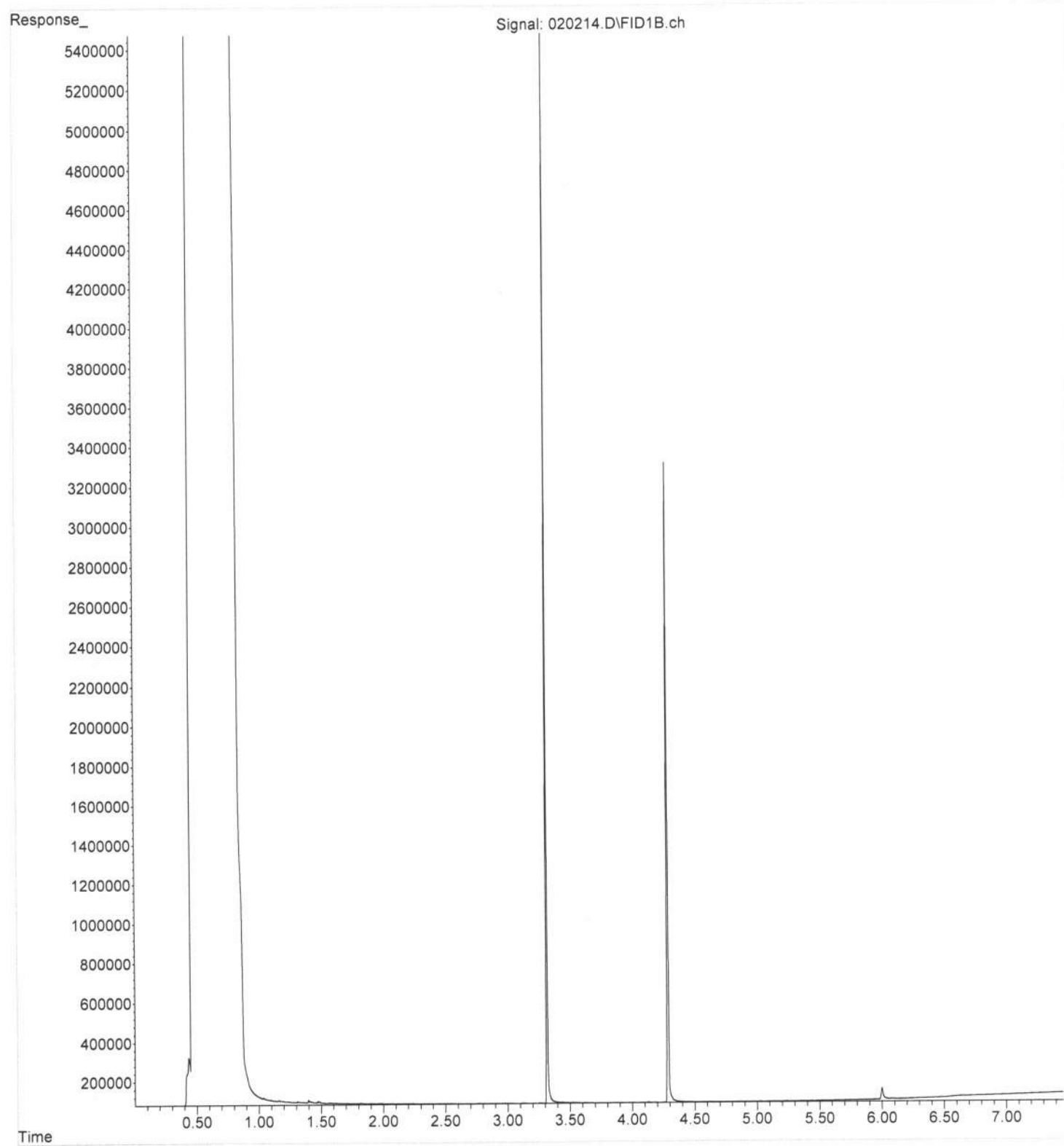
Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | A-per HG 02/06/24 ME Notes |
|-----------|--------|--------------|--------------|-------------|-----------|-------------------------------------|-------------------------------------|--|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 EPH and VPH NWTPH-HC4D | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | EDB, EDC, MTBE | Lead, Arsenic | TOC | cVOCs | | |
| HA-4-51 | 01 A-F | 1/29/24 | 1110 | S | 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | Hold for |
| HA-4-52 | 02 | ↓ | 1130 | ↓ | ↓ | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | analyses. |
| HA-4-53 | 03 | | | 1340 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | PM to reach |
| HA-4-54 | 04 | | | 1350 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | A | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | -out- |
| HA-4-55 | 05 | | | 1400 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | <input checked="" type="checkbox"/> | Provide |
| HA-4-56 | 06 ✓ | | ↓ | 1600 | ↓ | ↓ | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | | | | | | | | | | | | w/ TPH |
| | | | | | | | | | | | | | | | | | analyses and |
| | | | | | | | | | | | | | | | | | TPH prelims for |
| | | | | | | | | | | | | | | | | | possible EPH/ VPH follow-ups |

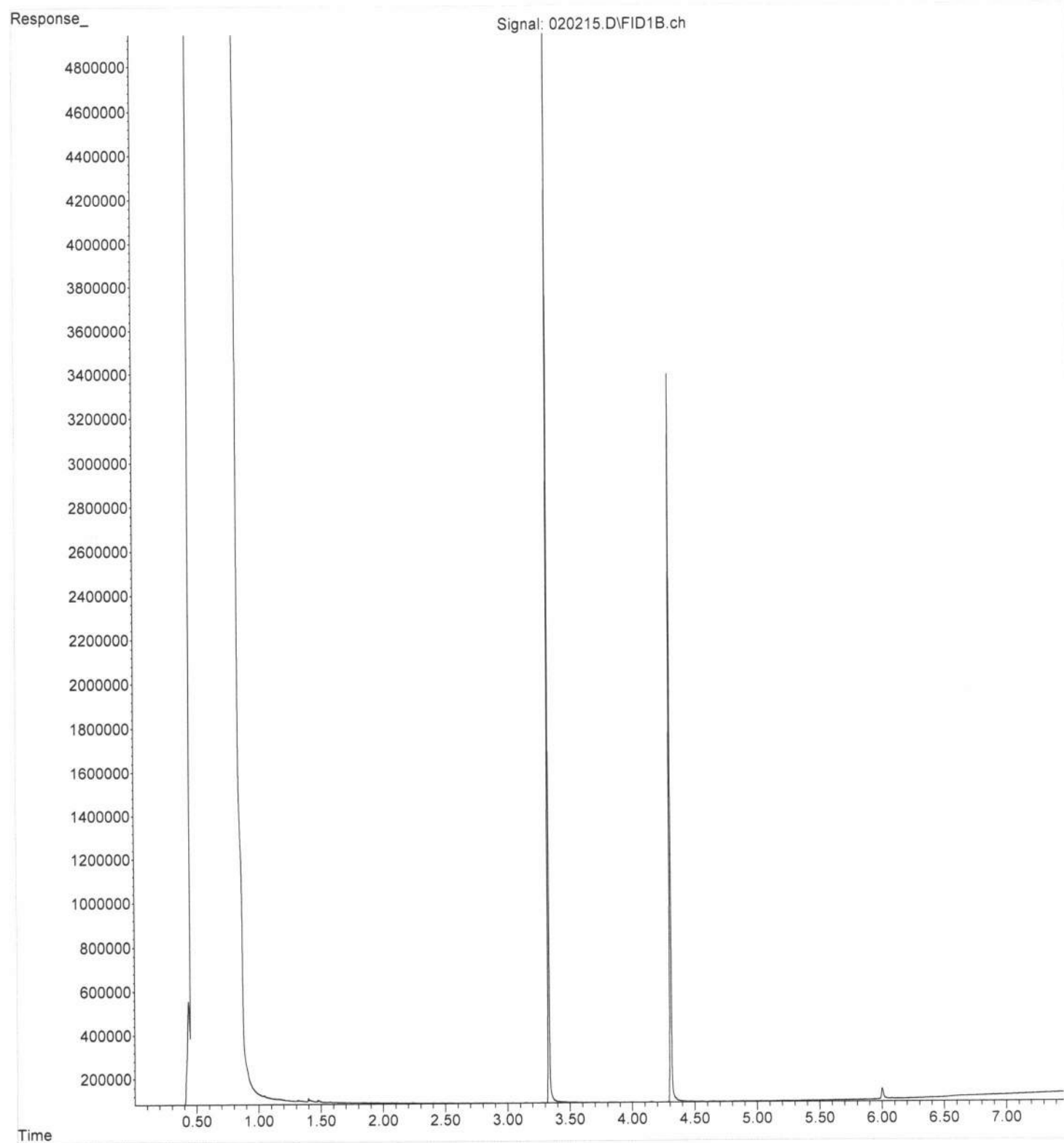
Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|----------------------|---------------------------------|---------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Zach Stephens</u> | <u>H+A</u> | <u>2/1/24</u> | <u>1517</u> |
| Received by: <u>[Signature]</u> | <u>Nhan Phan</u> | <u>FEBT</u> | <u>2/1/24</u> | <u>1517</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>1</u> °C | | |

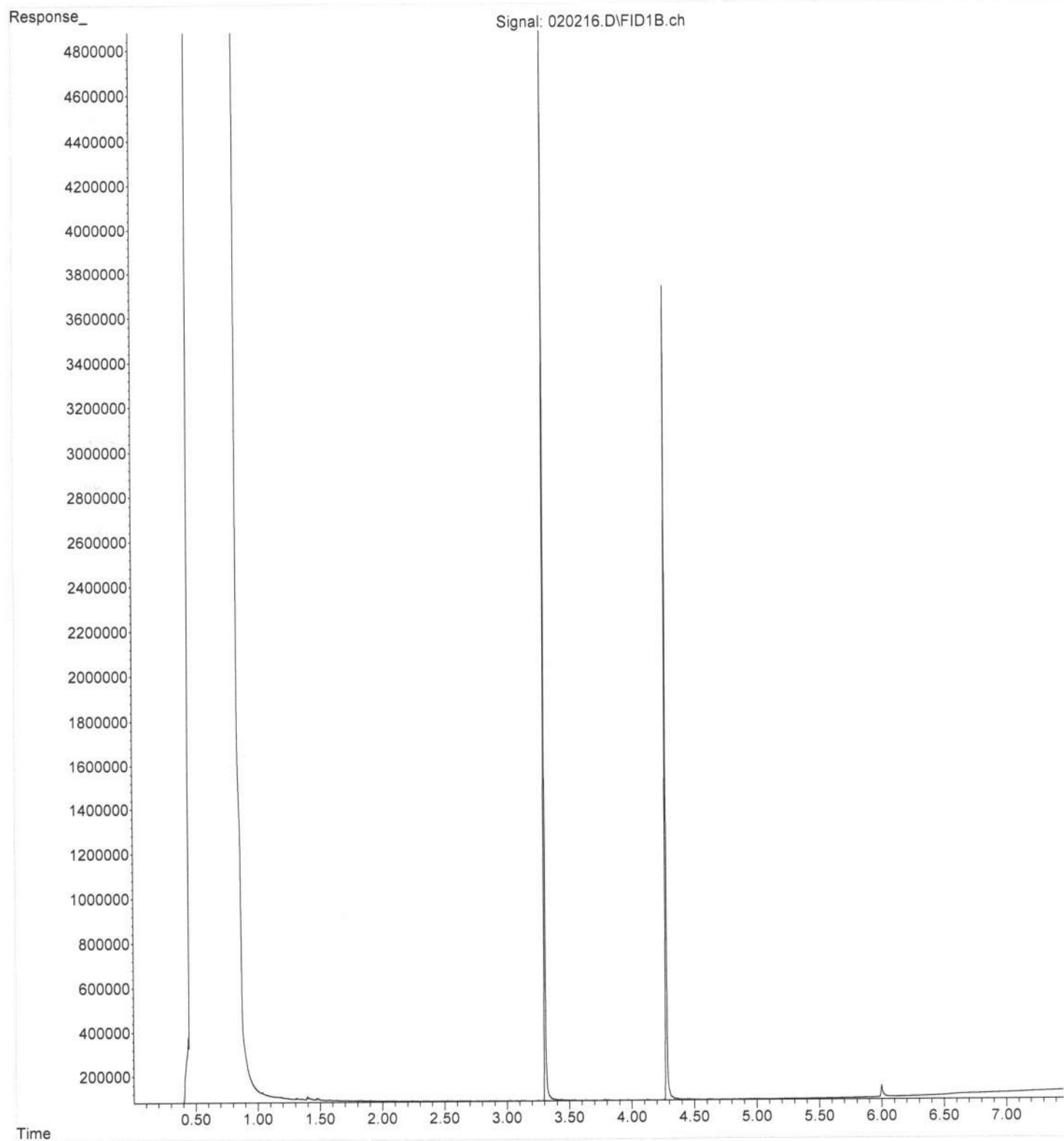
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Instrument : GC10
Sample Name: 402019-01
Misc Info :
Vial Number: 14



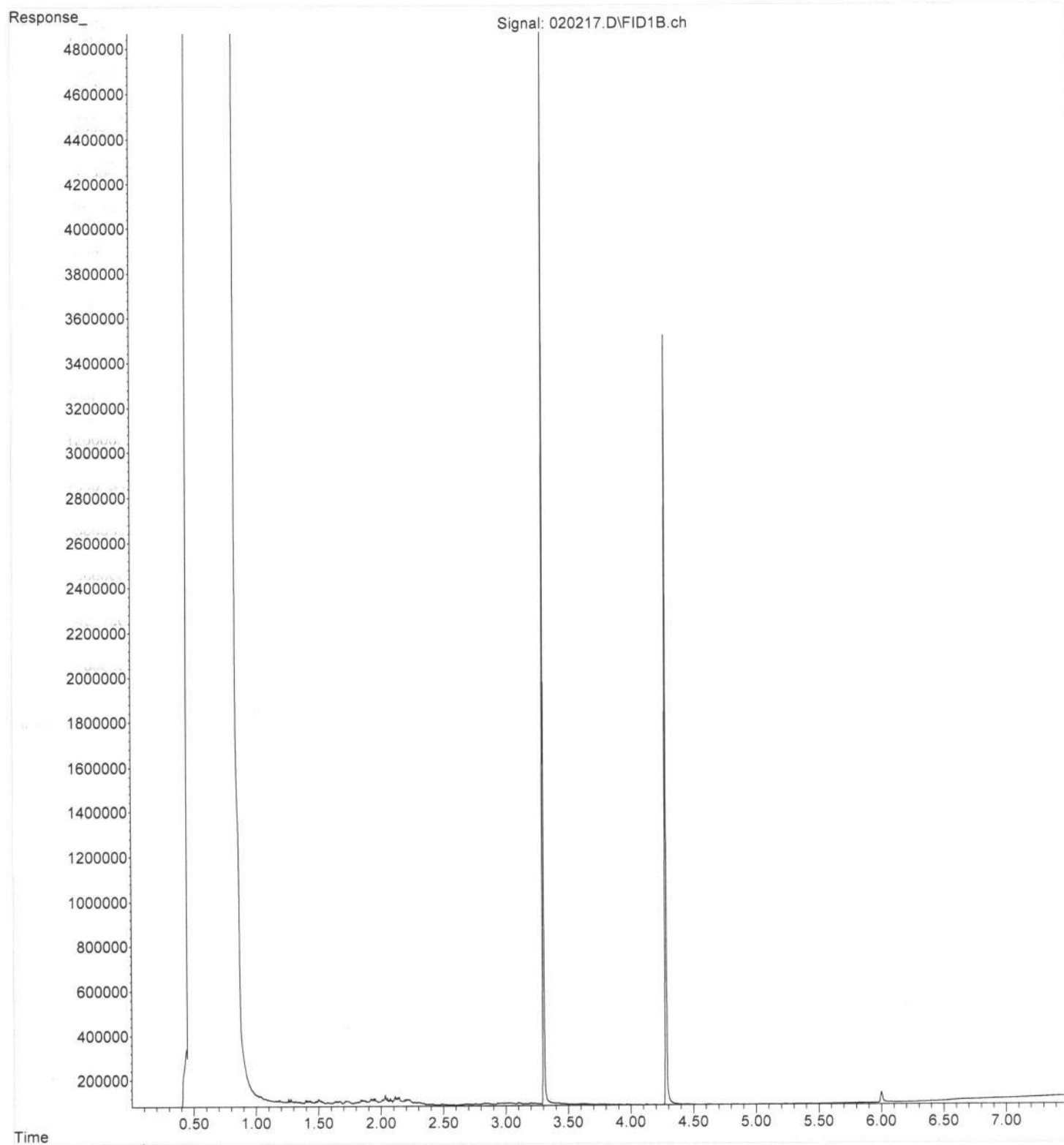
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Sample Name: 402019-02
Misc Info :
Vial Number: 15



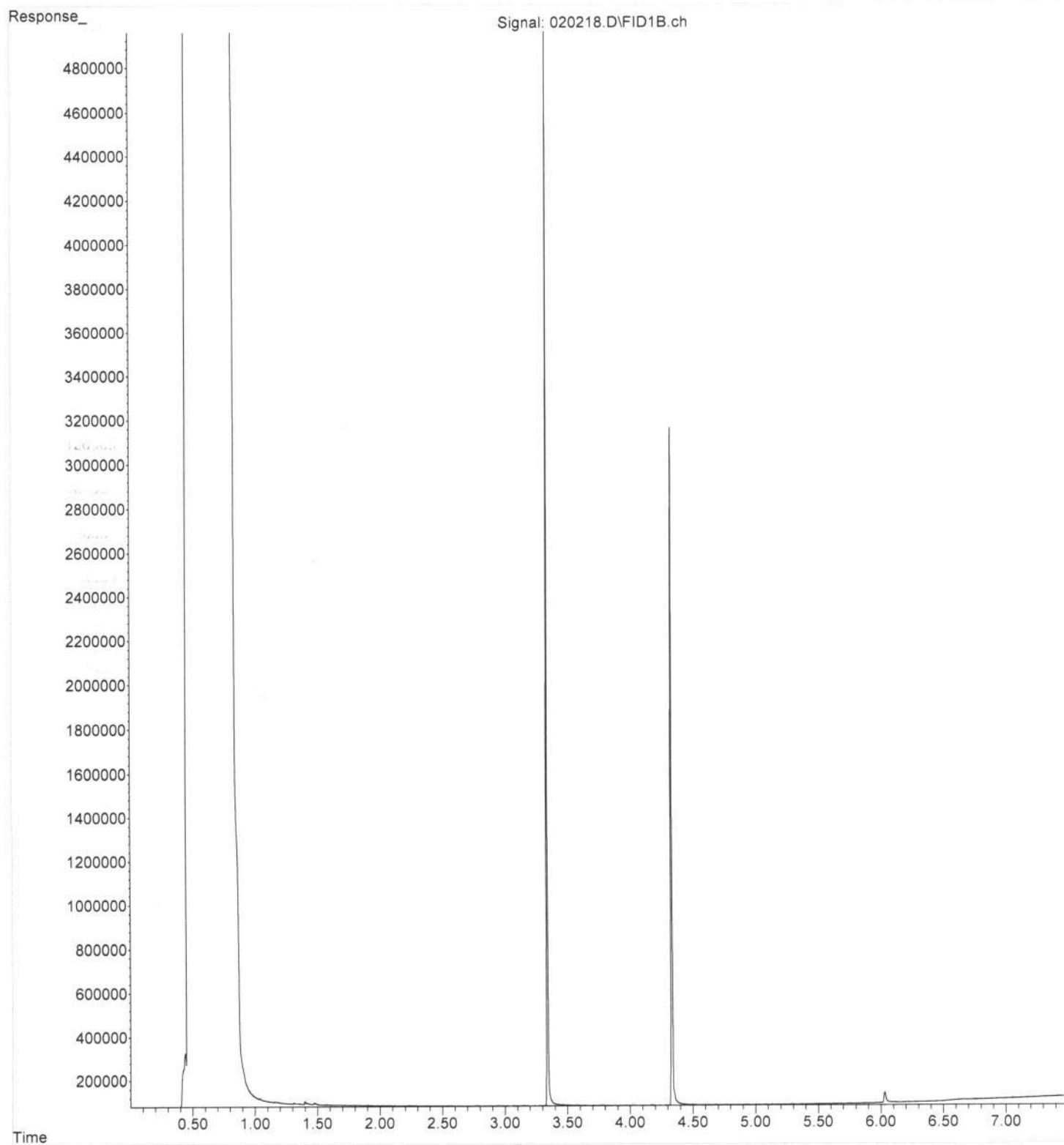
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Instrument : GC10
Sample Name: 402019-03
Misc Info :
Vial Number: 16



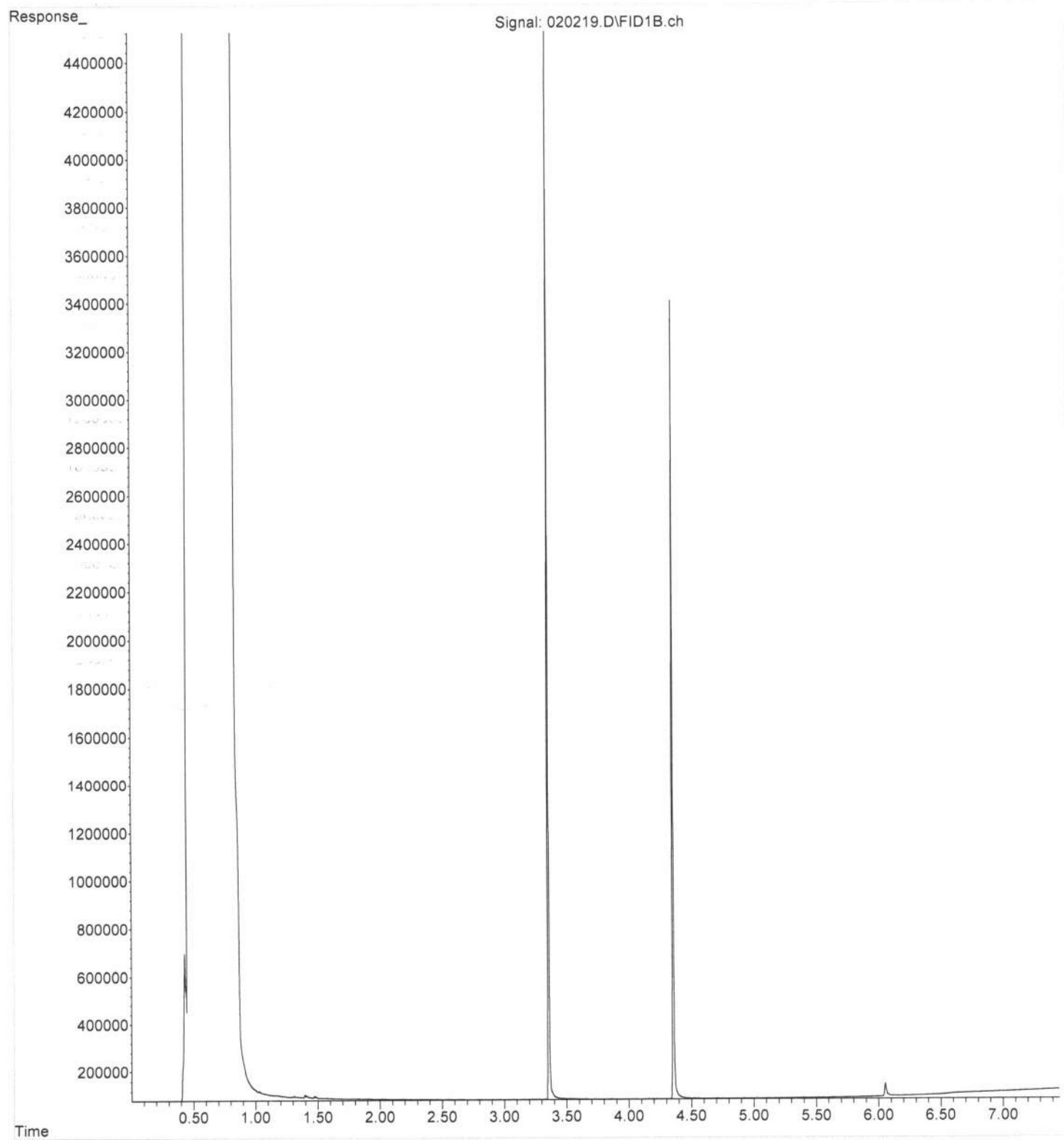
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Instrument : GC10
Sample Name: 402019-04
Misc Info :
Vial Number: 17



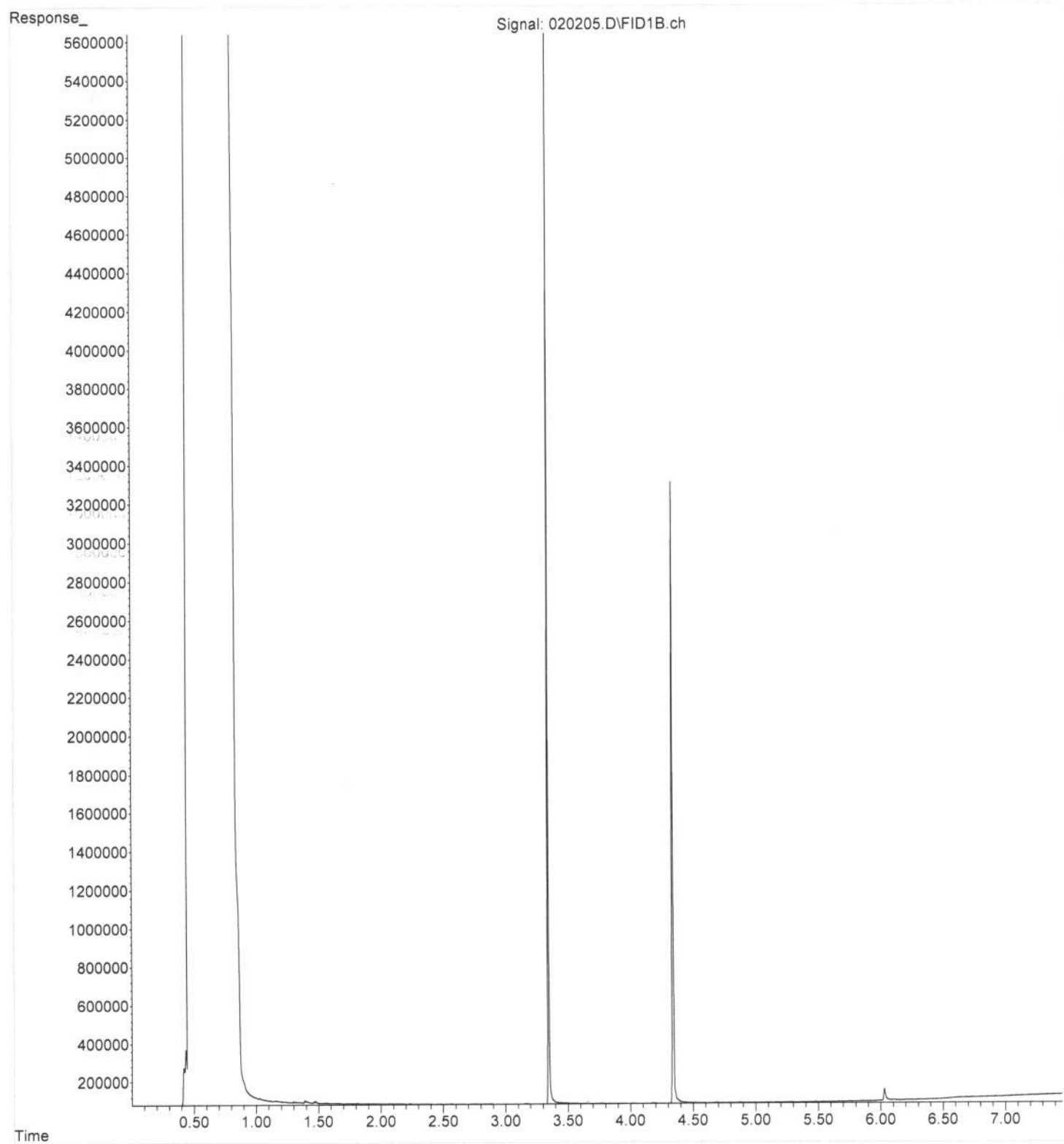
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Instrument : GC10
Sample Name: 402019-05
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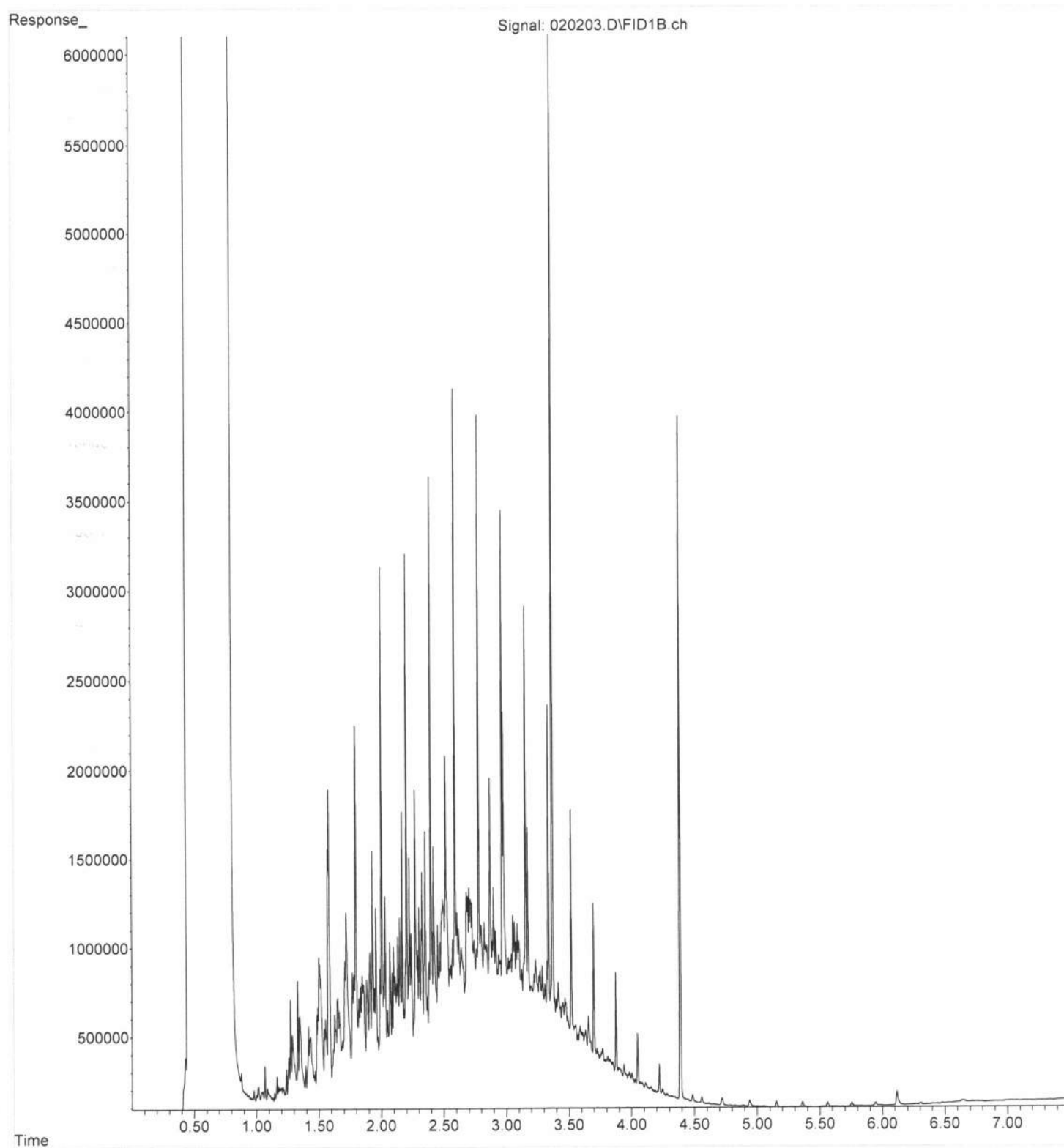
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Instrument : GC10
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Misc Info :
Vial Number: 19



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Operator : IJL
Acquired : 02 Feb 2024 10:00 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 04-291 mb
Misc Info :
Vial Number: 7



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Operator : IJL
Acquired : 02 Feb 2024 09:02 am using AcqMethod DX.M
Instrument : GC10
Sample Name: 500 DX 70-26F
Misc Info :
Vial Number: 3





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RE: 402019
Work Order Number: 2402086

February 20, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 2/6/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH

Sample Moisture (Percent Moisture)

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402019
Work Order: 2402086

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402086-001 | HA-4-S4 | 01/29/2024 1:50 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 402019

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402019

Lab ID: 2402086-001

Collection Date: 1/29/2024 1:50:00 PM

Client Sample ID: HA-4-S4

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42874

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C10-C12) | 15.9 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C12-C16) | 17.3 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 21.9 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C12-C16) | 30.1 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C16-C21) | 20.9 | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.0 | | mg/Kg-dry | 1 | 2/12/2024 2:32:59 PM |
| Surr: 1-Chlorooctadecane | 66.6 | 50 - 150 | | %Rec | 1 | 2/12/2024 2:32:59 PM |
| Surr: o-Terphenyl | 84.5 | 50 - 150 | | %Rec | 1 | 2/12/2024 2:32:59 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|--|-----------|---|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 2.22 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C6-C8) | 16.2 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 37.1 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 36.0 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 17.0 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 28.6 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 16.8 | 1.78 | | mg/Kg-dry | 1 | 2/7/2024 4:53:00 PM |
| Surr: 2,5-dibromotoluene | 99.4 | 60 - 140 | | %Rec | 1 | 2/7/2024 4:53:00 PM |

Sample Moisture (Percent Moisture)

Batch ID: R89488

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 12.8 | 0.500 | | wt% | 1 | 2/8/2024 9:59:29 AM |
|------------------|------|-------|--|-----|---|---------------------|

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: MB-42874 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/8/2024 | | RunNo: 89581 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870044 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 65.5 | | 100.0 | | 65.5 | 50 | 150 | | | | |

| Sample ID: MB-42874 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/8/2024 | | RunNo: 89582 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870052 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 93.8 | | 100.0 | | 93.8 | 50 | 150 | | | | |

| Sample ID: LCS-42874 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/8/2024 | | RunNo: 89581 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870045 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 105 | 20.0 | 250.0 | 0 | 42.1 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 68.7 | 10.0 | 125.0 | 0 | 55.0 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 77.6 | 10.0 | 125.0 | 0 | 62.1 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 85.8 | 10.0 | 125.0 | 0 | 68.7 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 97.2 | 10.0 | 125.0 | 0 | 77.7 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 70.4 | | 100.0 | | 70.4 | 50 | 150 | | | | |

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: LCS-42874 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/8/2024 | | | RunNo: 89582 | | |
|--------------------------------|------------------------|---------------------------------|-----------|-------------|------|----------------------------|-----------|-----------------------|---------------------|----------|------|
| Client ID: LCSS | Batch ID: 42874 | Analysis Date: 2/12/2024 | | | | | | SeqNo: 1870053 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 136 | 20.0 | 250.0 | 0 | 54.2 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 93.2 | 10.0 | 125.0 | 0 | 74.5 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 109 | 10.0 | 125.0 | 0 | 87.0 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 123 | 10.0 | 125.0 | 0 | 98.5 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 107 | 10.0 | 125.0 | 0 | 85.3 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 89.2 | | 100.0 | | 89.2 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|-------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402128-001AMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | | RunNo: 89581 | | |
| Client ID: BATCH | | Batch ID: 42874 | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870048 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 91.9 | 22.5 | 280.7 | 14.63 | 27.5 | 6.01 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 106 | 11.2 | 140.4 | 65.65 | 28.8 | 11.6 | 127 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 231 | 11.2 | 140.4 | 234.0 | -1.96 | 24.7 | 129 | | | | S |
| Aliphatic Hydrocarbon (C16-C21) | 191 | 11.2 | 140.4 | 166.5 | 17.6 | 25.5 | 132 | | | | S |
| Aliphatic Hydrocarbon (C21-C34) | 165 | 11.2 | 140.4 | 98.08 | 47.7 | 21.4 | 138 | | | | |
| Surr: 1-Chlorooctadecane | 61.0 | | 112.3 | | 54.4 | 50 | 150 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2402128-001AMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 2/8/2024 | | | RunNo: 89582 | | |
|----------------------------------|------------------------|---------------------------------|-----------|-------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42874 | Analysis Date: 2/12/2024 | | | | | | | SeqNo: 1870056 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 122 | 22.5 | 280.7 | 8.000 | 40.6 | 12.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 110 | 11.2 | 140.4 | 34.34 | 53.6 | 26.3 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 178 | 11.2 | 140.4 | 112.0 | 46.8 | 23.3 | 139 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 211 | 11.2 | 140.4 | 174.1 | 26.5 | 32.2 | 131 | | | | S |
| Aromatic Hydrocarbon (C21-C34) | 146 | 11.2 | 140.4 | 106.0 | 28.8 | 35.8 | 139 | | | | S |
| Surr: o-Terphenyl | 75.6 | | 112.3 | | 67.3 | 50 | 150 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: 2402128-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | RunNo: 89581 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870049 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 137 | 22.2 | 277.2 | 14.63 | 44.0 | 6.01 | 130 | 91.93 | 39.2 | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | 150 | 11.1 | 138.6 | 65.65 | 61.1 | 11.6 | 127 | 106.1 | 34.4 | 30 | |
| Aliphatic Hydrocarbon (C12-C16) | 337 | 11.1 | 138.6 | 234.0 | 74.6 | 24.7 | 129 | 231.2 | 37.3 | 30 | |
| Aliphatic Hydrocarbon (C16-C21) | 265 | 11.1 | 138.6 | 166.5 | 70.7 | 25.5 | 132 | 191.3 | 32.1 | 30 | |
| Aliphatic Hydrocarbon (C21-C34) | 210 | 11.1 | 138.6 | 98.08 | 81.1 | 21.4 | 138 | 165.0 | 24.2 | 30 | |
| Surr: 1-Chlorooctadecane | 78.0 | | 110.9 | | 70.3 | 50 | 150 | | 0 | | |

| Sample ID: 2402128-001AMSD | | SampType: MSD | | Units: mg/Kg-dry | | Prep Date: 2/8/2024 | | RunNo: 89582 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 42874 | | | | Analysis Date: 2/12/2024 | | SeqNo: 1870057 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 147 | 22.2 | 277.2 | 8.000 | 50.1 | 12.6 | 130 | 121.9 | 18.6 | 30 | |
| Aromatic Hydrocarbon (C10-C12) | 129 | 11.1 | 138.6 | 34.34 | 68.3 | 26.3 | 130 | 109.6 | 16.3 | 30 | |
| Aromatic Hydrocarbon (C12-C16) | 217 | 11.1 | 138.6 | 112.0 | 75.5 | 23.3 | 139 | 177.8 | 19.8 | 30 | |
| Aromatic Hydrocarbon (C16-C21) | 271 | 11.1 | 138.6 | 174.1 | 70.2 | 32.2 | 131 | 211.3 | 24.9 | 30 | |
| Aromatic Hydrocarbon (C21-C34) | 186 | 11.1 | 138.6 | 106.0 | 58.0 | 35.8 | 139 | 146.4 | 24.1 | 30 | |
| Surr: o-Terphenyl | 87.7 | | 110.9 | | 79.1 | 50 | 150 | | 0 | | |

Work Order: 2402086
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: LCS-42804 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868715 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 19.6 | 2.50 | 20.00 | 0 | 98.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 8.87 | 2.50 | 10.00 | 0 | 88.7 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 48.7 | 2.50 | 50.00 | 0 | 97.5 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 9.91 | 2.50 | 10.00 | 0 | 99.1 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.41 | | 2.500 | | 96.3 | 60 | 140 | | | | |

| Sample ID: MB-42804 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MBLKS | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868698 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 2.37 | | 2.500 | | 95.0 | 60 | 140 | | | | |

| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|--------|----------|------|
| Client ID: BATCH | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868703 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 104 | 18.3 | | 0 | 0 | | | 113.7 | 8.57 | 25 | D |
| Aliphatic Hydrocarbon (C6-C8) | 499 | 18.3 | | 0 | 0 | | | 498.5 | 0.0812 | 25 | D |
| Aliphatic Hydrocarbon (C8-C10) | 419 | 18.3 | | 0 | 0 | | | 395.4 | 5.80 | 25 | DE |
| Aliphatic Hydrocarbon (C10-C12) | 525 | 18.3 | | 0 | 0 | | | 505.0 | 3.86 | 25 | DE |
| Aromatic Hydrocarbon (C8-C10) | 1,810 | 18.3 | | 0 | 0 | | | 1,757 | 3.17 | 25 | D |

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QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
| Client ID: BATCH | | Batch ID: 42804 | | Analysis Date: 2/7/2024 | | | | | SeqNo: 1868703 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 608 | 18.3 | | 0 | 0 | | | 596.1 | 1.91 | 25 | DE |
| Aromatic Hydrocarbon (C12-C13) | 208 | 18.3 | | 0 | 0 | | | 204.9 | 1.53 | 25 | D |
| Surr: 2,5-dibromotoluene | 19.0 | | 18.30 | | 104 | 60 | 140 | | 0 | 0 | D |

| Sample ID: 2402008-005BMS | SampType: MS | Units: mg/Kg-dry | | | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
|----------------------------------|------------------------|--------------------------------|-----------|-------------|------|----------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: BATCH | Batch ID: 42804 | Analysis Date: 2/7/2024 | | | | | | | SeqNo: 1868705 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 24.0 | 1.67 | 13.35 | 10.72 | 99.7 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C6-C8) | 18.6 | 1.67 | 6.673 | 11.16 | 111 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C8-C10) | 73.0 | 1.67 | 6.673 | 67.05 | 89.0 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C10-C12) | 152 | 1.67 | 6.673 | 148.0 | 63.0 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C8-C10) | 143 | 1.67 | 33.36 | 111.3 | 95.5 | 70 | 130 | | | | H |
| Aromatic Hydrocarbon (C10-C12) | 141 | 1.67 | 6.673 | 139.7 | 15.6 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C12-C13) | 74.3 | 1.67 | 6.673 | 69.70 | 68.8 | 70 | 130 | | | | SH |
| Surr: 2,5-dibromotoluene | 1.82 | | 1.668 | | 109 | 60 | 140 | | | | H |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402086
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 5.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402086
Page #

Send Report To Michael Erdahl

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

TURNAROUND TIME
☒ Standard TAT
 RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 12 of 12

[illegible]



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402019
Work Order Number: 2402047

February 09, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 2/2/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402019
Work Order: 2402047

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2402047-001 | HA-4-S2 | 01/29/2024 11:30 AM | 02/02/2024 12:53 PM |
| 2402047-002 | HA-4-S4 | 01/29/2024 1:50 PM | 02/02/2024 12:53 PM |
| 2402047-003 | HA-4-S6 | 01/29/2024 4:00 PM | 02/02/2024 12:53 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 402019

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2402047**
Date Reported: **2/9/2024**

CLIENT: Friedman & Bruya
Project: 402019

Lab ID: 2402047-001

Client Sample ID: HA-4-S2

Collection Date: 1/29/2024 11:30:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42885 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 3:08:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2402047-002

Client Sample ID: HA-4-S4

Collection Date: 1/29/2024 1:50:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42885 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 4:10:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2402047-003

Client Sample ID: HA-4-S6

Collection Date: 1/29/2024 4:00:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42885 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/9/2024 4:24:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: 2402047
CLIENT: Friedman & Bruya
Project: 402019

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-42885 | SampType: MBLK | Units: %-dry | | | Prep Date: 2/9/2024 | | | RunNo: 89546 | | | |
| Client ID: MBLKS | Batch ID: 42885 | | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869395 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.150 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-42885 | | SampType: LCS | | | Units: %-dry | | Prep Date: 2/9/2024 | | | RunNo: 89546 | | |
| Client ID: LCSS | | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869396 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 80 | 120 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402047-001ADUP | | SampType: DUP | | | Units: %-dry | | Prep Date: 2/9/2024 | | | RunNo: 89546 | | |
| Client ID: HA-4-S2 | | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869398 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|---|--|----|--|
| Total Organic Carbon | ND | 0.150 | | | | | | 0 | | 20 | |
|----------------------|----|-------|--|--|--|--|--|---|--|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402047-001AMS | | SampType: MS | | | Units: %-dry | | Prep Date: 2/9/2024 | | | RunNo: 89546 | | |
| Client ID: HA-4-S2 | | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | | | SeqNo: 1869399 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.10 | 0.150 | 1.000 | 0 | 110 | 75 | 125 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402047-001AMSD | | SampType: MSD | | | Units: %-dry | | Prep Date: 2/9/2024 | | | RunNo: 89546 | | |
| Client ID: HA-4-S2 | | Batch ID: 42885 | | | Analysis Date: 2/9/2024 | | | | | SeqNo: 1869400 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|-------|------|----|--|
| Total Organic Carbon | 1.11 | 0.150 | 1.000 | 0 | 111 | 75 | 125 | 1.095 | 1.63 | 20 | |
|----------------------|------|-------|-------|---|-----|----|-----|-------|------|----|--|

Sample Log-In Check List

Client Name: FB

Work Order Number: 2402047

Logged by: Morgan Wilson

Date Received: 2/2/2024 12:53:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information



| Item # | Temp °C |
|--------|---------|
| Sample | 4.2 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402047

Page 8 of 8

Will call with instructions

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|--------|-------|
|  | Michael Erdahl | Friedman & Bruya | 2/2/24 | 0915 |
| Received by:  | AK R/S | FAI | 2/2/24 | 12:53 |
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 26, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included is the amended report from the testing of material submitted on January 29, 2024 from the Whidbey Marine 0204475-001, F&BI 401358 project. The sample IDs for the TSS results have been corrected.

We apologize for the inconvenience and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 23, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on January 29, 2024 from the Whidbey Marine 0204475-001, F&BI 401358 project. There are 126 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 29, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 401358 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 401358 -01 | HA-1-S1 |
| 401358 -02 | HA-1-S2 |
| 401358 -03 | HA-1-S3 |
| 401358 -04 | HA-1-S4 |
| 401358 -05 | HA-1-S5 |
| 401358 -06 | HA-1-S6 |
| 401358 -07 | HA-1-DUP |
| 401358 -08 | HA-2-S1.5 |
| 401358 -09 | HA-2-S2 |
| 401358 -10 | HA-2-S3 |
| 401358 -11 | HA-2-S4 |
| 401358 -12 | HA-2-S5 |
| 401358 -13 | HA-2-S6 |
| 401358 -14 | HA-2-S7 |
| 401358 -15 | HA-2-S8 |
| 401358 -16 | HA-2-S9 |
| 401358 -17 | HA-2-S10 |
| 401358 -18 | HA-3-S1 |
| 401358 -19 | HA-3-S2 |
| 401358 -20 | HA-3-S3 |
| 401358 -21 | HA-3-S4 |
| 401358 -22 | HA-3-S5 |
| 401358 -23 | HA-3-S6 |
| 401358 -24 | MW-23D-S3 |
| 401358 -25 | MW-23D-S4 |
| 401358 -26 | MW-23D-S5 |
| 401358 -27 | MW-23D-S6 |
| 401358 -28 | MW-23D-DUP |
| 401358 -29 | HA-1-GW |
| 401358 -30 | HA-2-GW |
| 401358 -31 | HA-3-GW |
| 401358 -32 | Dup-01 |

Samples HA-1-S2, HA-1-S4, HA-1-S6, HA-1-DUP, HA-2-S3, HA-2-S5, HA-2-S7, MW-23D-S4, MW-23D-S6, and MW-23D-DUP were sent to Fremont Analytical for total organic carbon analysis. In addition, samples HA-1-S6, HA-1-DUP, HA-2-S7, HA-3-S6, and MW-23D-S6 were sent to Fremont Analytical for EPH and VPH analyses. The reports are enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

Several 8260D compounds exceeded the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

The 8260D samples HA-2-S9, HA-2-S10, and MW-23D-S5 were analyzed outside of the holding time. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> Laboratory ID | <u>% Moisture</u> |
|-----------------------------------|-------------------|
| HA-1-S1 401358-01 | 2 |
| HA-1-S2 401358-02 | 4 |
| HA-1-S3 401358-03 | 13 |
| HA-1-S4 401358-04 | 16 |
| HA-1-S6 401358-06 | 10 |
| HA-1-DUP 401358-07 | 11 |
| HA-2-S1.5 401358-08 | 6 |
| HA-2-S2 401358-09 | 4 |
| HA-2-S3 401358-10 | 3 |
| HA-2-S4 401358-11 | 13 |
| HA-2-S5 401358-12 | 21 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|------------------------|-------------------|
| Laboratory ID | |
| HA-2-S7 401358-14 | 11 |
| HA-2-S8 401358-15 | 10 |
| HA-2-S9 401358-16 | 13 |
| HA-2-S10 401358-17 | 18 |
| HA-3-S1 401358-18 | 6 |
| HA-3-S2 401358-19 | 7 |
| HA-3-S3 401358-20 | 8 |
| HA-3-S4 401358-21 | 23 |
| HA-3-S6 401358-23 | 8 |
| MW-23D-S3 401358-24 | 17 |
| MW-23D-S4 401358-25 | 18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: NA

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

| <u>Sample ID</u> | <u>% Moisture</u> |
|-------------------------|-------------------|
| Laboratory ID | |
| MW-23D-S5 401358-26 | 6 |
| MW-23D-S6 401358-27 | 11 |
| MW-23D-DUP 401358-28 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| HA-1-S1 401358-01 | <5 | 90 |
| HA-1-S2 401358-02 | <5 | 96 |
| HA-1-S3 401358-03 | <5 | 91 |
| HA-1-S4 401358-04 | <5 | 95 |
| HA-1-S6 401358-06 1/50 | 2,000 | 103 |
| HA-1-DUP 401358-07 1/20 | 1,000 | 107 |
| HA-2-S1.5 401358-08 | <5 | 95 |
| HA-2-S2 401358-09 | <5 | 96 |
| HA-2-S3 401358-10 | <5 | 92 |
| HA-2-S4 401358-11 | <5 | 96 |
| HA-2-S5 401358-12 | <5 | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> | <u>Gasoline Range</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------|-----------------------|---|
| Laboratory ID | | |
| HA-2-S7 401358-14 1/100 | 17,000 | 114 |
| HA-2-S8 401358-15 | 6.4 | 136 |
| HA-3-S1 401358-18 | <5 | 92 |
| HA-3-S2 401358-19 | <5 | 96 |
| HA-3-S3 401358-20 | <5 | 90 |
| HA-3-S4 401358-21 | <5 | 97 |
| HA-3-S6 401358-23 1/100 | 11,000 | 137 |
| MW-23D-S3 401358-24 | <5 | 93 |
| MW-23D-S4 401358-25 | <5 | 90 |
| MW-23D-S6 401358-27 1/20 | 1,100 | 117 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24, and 02/02/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-23D-DUP 401358-28 1/50 | 1,000 | 103 |
| Method Blank 04-0188 MB | <5 | 132 |
| Method Blank 04-189 MB | <5 | 94 |
| Method Blank 04-193 MB | <5 | 129 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/29/24

Date Analyzed: 01/30/24 and 01/31/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-2-S9 401358-16 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 87 |
| HA-2-S10 401358-17 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 85 |
| MW-23D-S5 401358-26 | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 87 |
| Method Blank 04-0188 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 110 |
| Method Blank 04-189 MB | <0.02 | <0.02 | <0.02 | <0.06 | <5 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/31/24

Date Analyzed: 01/31/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| HA-1-GW 401358-29 | <1 | 1.8 | <1 | <3 | <100 | 85 |
| HA-2-GW 401358-30 | 1.0 | 2.2 | <1 | 5.0 | 900 | 85 |
| HA-3-GW 401358-31 | <1 | <1 | <1 | <3 | <100 | 88 |
| Dup-01 401358-32 | <1 | <1 | <1 | <3 | <100 | 86 |
| Method Blank 04-0191 MB | <1 | <1 | <1 | <3 | <100 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-1-S1 401358-01 | <50 | <250 | 99 |
| HA-1-S2 401358-02 | <50 | <250 | 96 |
| HA-1-S3 401358-03 | <50 | <250 | 101 |
| HA-1-S4 401358-04 | <50 | <250 | 97 |
| HA-1-S6 401358-06 | <50 | <250 | 106 |
| HA-1-DUP 401358-07 | <50 | <250 | 107 |
| HA-2-S1.5 401358-08 | <50 | <250 | 101 |
| HA-2-S2 401358-09 | <50 | <250 | 103 |
| HA-2-S3 401358-10 | <50 | <250 | 102 |
| HA-2-S4 401358-11 | <50 | <250 | 102 |
| HA-2-S5 401358-12 | <50 | <250 | 105 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| HA-2-S7 401358-14 | 1,400 x | <250 | 107 |
| HA-2-S8 401358-15 | <50 | <250 | 91 |
| HA-2-S9 401358-16 | <50 | <250 | 91 |
| HA-2-S10 401358-17 | <50 | <250 | 94 |
| HA-3-S1 401358-18 | <50 | <250 | 98 |
| HA-3-S2 401358-19 | <50 | <250 | 97 |
| HA-3-S3 401358-20 | <50 | <250 | 100 |
| HA-3-S4 401358-21 | <50 | <250 | 103 |
| HA-3-S6 401358-23 | 340 x | <250 | 98 |
| MW-23D-S3 401358-24 | <50 | <250 | 94 |
| MW-23D-S4 401358-25 | <50 | <250 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24 and 02/01/24

Date Analyzed: 01/30/24, 01/31/24 and 02/01/24

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-23D-S5 401358-26 | <50 | <250 | 93 |
| MW-23D-S6 401358-27 | 230 x | <250 | 104 |
| MW-23D-DUP 401358-28 | 65 x | <250 | 101 |
| Method Blank 04-259 MB | <50 | <250 | 92 |
| Method Blank 04-257 MB2 | <50 | <250 | 101 |
| Method Blank 04-287 MB | <50 | <250 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/30/24

Date Analyzed: 01/30/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| HA-1-GW 401358-29 1/1.2 | <60 | <300 | 93 |
| HA-2-GW 401358-30 | 390 x | <250 | 93 |
| HA-3-GW 401358-31 1/1.2 | <60 | <300 | 83 |
| Dup-01 401358-32 1/1.2 | <60 | <300 | 82 |
| Method Blank 04-0251 MB2 | <50 | <250 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-01 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-01.041 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.48 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-02 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-02.119 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.40 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-03 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-03.120 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.28 |
| Lead | 1.93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-04 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-04.121 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.65 |
| Lead | 2.25 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-06 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-06.122 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.79 |
| Lead | 1.55 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-07 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-07.123 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.84 |
| Lead | 1.59 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-08 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-08.124 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.47 |
| Lead | 2.08 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-09 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-09.125 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.49 |
| Lead | 1.25 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-10 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-10.135 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.83 |
| Lead | 1.23 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-11 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-11.136 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.72 |
| Lead | 2.14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-12 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-12.137 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 7.76 |
| Lead | 6.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-14.138 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.86 |
| Lead | 1.82 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 |
| Date Analyzed: | 02/01/24 | Data File: | 401358-15.153 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.73 |
| Lead | 1.86 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-18 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-18.148 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.55 |
| Lead | 1.21 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-19 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-19.149 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.38 |
| Lead | 1.20 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-20 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-20.150 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.26 |
| Lead | 2.03 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-21 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-21.151 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.58 |
| Lead | 2.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-23.162 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.22 |
| Lead | 1.73 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-24 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-24.163 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 5.40 |
| Lead | 3.16 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-25 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-25.164 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 4.78 |
| Lead | 3.69 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-27 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-27.171 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 2.09 |
| Lead | 3.39 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-28 |
| Date Analyzed: | 01/30/24 | Data File: | 401358-28.177 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|------|
| Arsenic | 1.67 |
| Lead | 3.10 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | I4-67 mb |
| Date Analyzed: | 01/30/24 | Data File: | I4-67 mb.039 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | I4-68 mb |
| Date Analyzed: | 01/30/24 | Data File: | I4-68 mb.115 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------------------|-------------|----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | I4-80 mb |
| Date Analyzed: | 02/01/24 | Data File: | I4-80 mb.100 |
| Matrix: | Soil | Instrument: | ICPMS2 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
|----------|------------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-1-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-01 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013127.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0014 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0064 |
| Hexane | <0.25 | o-Xylene | 0.0023 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0036 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-1-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-02 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013128.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0019 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0085 |
| Hexane | <0.25 | o-Xylene | 0.0020 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0042 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-03 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013129.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0019 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-04 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013130.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 114 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0014 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-06 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 86 | 114 |
| Toluene-d8 | 98 | 86 | 115 |
| 4-Bromofluorobenzene | 105 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.32 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 1.3 |
| Hexane | <0.25 | o-Xylene | 0.56 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 0.11 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 0.26 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 1.0 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.98 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.53 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-07 |
| Date Analyzed: | 01/31/24 | Data File: | 013115.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 86 | 86 | 114 |
| Toluene-d8 | 122 ip | 86 | 115 |
| 4-Bromofluorobenzene | 98 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.035 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 69 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 240 ve |
| Hexane | 8.9 | o-Xylene | 120 ve |
| Methylene chloride | <0.5 | Styrene | 3.6 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 8.3 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 34 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 66 ve |
| Chloroform | 0.56 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 120 ve |
| Benzene | 0.13 | sec-Butylbenzene | 4.0 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 1.9 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 120 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 43 ve |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-07 1/50 |
| Date Analyzed: | 02/01/24 | Data File: | 020113.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 86 | 114 |
| Toluene-d8 | 104 | 86 | 115 |
| 4-Bromofluorobenzene | 107 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 100 |
| Ethylbenzene | 63 |
| m,p-Xylene | 260 |
| o-Xylene | 94 |
| n-Propylbenzene | 28 |
| 1,3,5-Trimethylbenzene | 56 |
| 1,2,4-Trimethylbenzene | 190 |
| Naphthalene | 35 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-08 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013131.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 100 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-2-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-09 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013132.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 99 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0042 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0027 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-10 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013133.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 0.0010 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0049 |
| Hexane | <0.25 | o-Xylene | 0.0016 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0034 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-11 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013134.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0027 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.0057 |
| Hexane | <0.25 | o-Xylene | 0.0019 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0035 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-12 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013135.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 110 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-14 |
| Date Analyzed: | 01/31/24 | Data File: | 013118.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 86 | 114 |
| Toluene-d8 | 136 ip | 86 | 115 |
| 4-Bromofluorobenzene | 115 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.037 |
| Vinyl chloride | <0.05 | Dibromochloromethane | 0.10 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 120 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 400 ve |
| Hexane | 49 ve | o-Xylene | 250 ve |
| Methylene chloride | <0.5 | Styrene | 8.7 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 18 ve |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 73 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 110 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 180 ve |
| Benzene | 1.5 | sec-Butylbenzene | 8.5 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 3.9 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | 5.0 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 250 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 75 ve |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-14 1/500 |
| Date Analyzed: | 02/01/24 | Data File: | 020114.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 86 | 114 |
| Toluene-d8 | 97 | 86 | 115 |
| 4-Bromofluorobenzene | 108 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 430 |
| Ethylbenzene | 180 |
| m,p-Xylene | 800 |
| o-Xylene | 330 |
| Isopropylbenzene | <25 |
| n-Propylbenzene | 79 |
| 1,3,5-Trimethylbenzene | 130 |
| 1,2,4-Trimethylbenzene | 460 |
| Naphthalene | 96 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 1/0.5 |
| Date Analyzed: | 02/01/24 | Data File: | 020118.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0022 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 ca | Ethylbenzene | 0.12 |
| Acetone | <5 k | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | 0.46 |
| Hexane | <0.25 | o-Xylene | 0.16 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | 0.051 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 k | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 0.22 |
| Benzene | 0.013 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.45 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 0.18 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 k | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S9 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-16 1/0.5 |
| Date Analyzed: | 02/23/24 11:21 | Data File: | 022312.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 89 | 84 | 120 |
| Toluene-d8 | 92 | 73 | 128 |
| 4-Bromofluorobenzene | 104 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S10 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-17 1/0.5 |
| Date Analyzed: | 02/23/24 10:58 | Data File: | 022311.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 84 | 120 |
| Toluene-d8 | 92 | 73 | 128 |
| 4-Bromofluorobenzene | 104 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S5 ht | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 401358-26 1/0.5 |
| Date Analyzed: | 02/23/24 10:34 | Data File: | 022310.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 84 | 120 |
| Toluene-d8 | 93 | 73 | 128 |
| 4-Bromofluorobenzene | 105 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-3-S1 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-18 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013136.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | |
|-------------------------------|-------------------------------------|
| Client Sample ID: HA-3-S2 | Client: Haley & Aldrich, Inc |
| Date Received: 01/29/24 | Project: Whidbey Marine 0204475-001 |
| Date Extracted: 01/31/24 | Lab ID: 401358-19 1/0.5 |
| Date Analyzed: 01/31/24 | Data File: 013137.D |
| Matrix: Soil | Instrument: GCMS11 |
| Units: mg/kg (ppm) Dry Weight | Operator: IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 108 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 105 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0018 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-20 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013138.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 114 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.0021 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 0.0030 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-21 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013139.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 79 | 128 |
| Toluene-d8 | 97 | 84 | 121 |
| 4-Bromofluorobenzene | 99 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-23 |
| Date Analyzed: | 01/31/24 | Data File: | 013119.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 86 | 114 |
| Toluene-d8 | 135 ip | 86 | 115 |
| 4-Bromofluorobenzene | 116 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | 0.16 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 150 ve |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 430 ve |
| Hexane | 260 ve | o-Xylene | 240 ve |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 25 ve |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 93 ve |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 120 ve |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 200 ve |
| Benzene | <0.03 | sec-Butylbenzene | 9.3 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 4.1 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 130 ve | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 76 ve |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-23 1/500 |
| Date Analyzed: | 02/01/24 | Data File: | 020115.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 86 | 114 |
| Toluene-d8 | 100 | 86 | 115 |
| 4-Bromofluorobenzene | 107 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Toluene | 160 |
| Hexane | 250 |
| Ethylbenzene | 280 |
| m,p-Xylene | 1,000 |
| o-Xylene | 350 |
| Isopropylbenzene | 29 |
| n-Propylbenzene | 97 |
| 1,3,5-Trimethylbenzene | 150 |
| 1,2,4-Trimethylbenzene | 520 |
| Naphthalene | 86 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-24 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013140.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 102 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-25 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013141.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 101 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-27 |
| Date Analyzed: | 01/31/24 | Data File: | 013116.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 86 | 114 |
| Toluene-d8 | 102 | 86 | 115 |
| 4-Bromofluorobenzene | 124 ip | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 4.6 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 18 |
| Hexane | 0.89 | o-Xylene | 3.4 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 0.81 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 3.4 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 7.2 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 16 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 0.33 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 5.2 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 4.6 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-28 |
| Date Analyzed: | 01/31/24 | Data File: | 013117.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 86 | 114 |
| Toluene-d8 | 101 | 86 | 115 |
| 4-Bromofluorobenzene | 113 | 83 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | 3.3 |
| Acetone | <5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 13 |
| Hexane | 1.1 | o-Xylene | 2.7 |
| Methylene chloride | <0.5 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Isopropylbenzene | 0.57 |
| trans-1,2-Dichloroethene | <0.05 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.05 | n-Propylbenzene | 2.6 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | 1,3,5-Trimethylbenzene | 5.1 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | 9.8 |
| Benzene | <0.03 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.02 | p-Isopropyltoluene | 0.22 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | 2.9 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | 3.6 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0243 mb 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013126.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 111 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0247 mb 1/0.5 |
| Date Analyzed: | 01/31/24 | Data File: | 013125.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.001 |
| Acetone | <5 ca | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.003 |
| Hexane | <0.25 | o-Xylene | <0.0015 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 04-0270 mb 1/0.5 |
| Date Analyzed: | 02/01/24 | Data File: | 020110.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 110 | 79 | 128 |
| Toluene-d8 | 100 | 84 | 121 |
| 4-Bromofluorobenzene | 106 | 84 | 116 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.002 |
| Vinyl chloride | <0.002 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.005 |
| Chloroethane | <0.1 | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 ca | Ethylbenzene | <0.001 |
| Acetone | <5 k | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.002 | m,p-Xylene | <0.002 |
| Hexane | <0.25 | o-Xylene | <0.001 |
| Methylene chloride | <0.2 | Styrene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.002 | Isopropylbenzene | <0.05 |
| trans-1,2-Dichloroethene | <0.002 | Bromoform | <0.05 |
| 1,1-Dichloroethane | <0.002 | n-Propylbenzene | <0.05 |
| 2,2-Dichloropropane | <0.05 | Bromobenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.002 | 1,3,5-Trimethylbenzene | <0.05 |
| Chloroform | <0.05 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 2-Butanone (MEK) | <1 k | 1,2,3-Trichloropropane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.002 | 2-Chlorotoluene | <0.05 |
| 1,1,1-Trichloroethane | <0.002 | 4-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | tert-Butylbenzene | <0.05 |
| Carbon tetrachloride | <0.05 | 1,2,4-Trimethylbenzene | <0.05 |
| Benzene | <0.001 | sec-Butylbenzene | <0.05 |
| Trichloroethene | <0.002 | p-Isopropyltoluene | <0.05 |
| 1,2-Dichloropropane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Bromodichloromethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,2-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <1 | 1,2-Dibromo-3-chloropropane | <0.5 |
| cis-1,3-Dichloropropene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| Toluene | <0.001 | Hexachlorobutadiene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Naphthalene | <0.01 |
| 1,1,2-Trichloroethane | <0.05 | 1,2,3-Trichlorobenzene | <0.25 |
| 2-Hexanone | <0.5 k | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/23/24 | Lab ID: | 04-0384 mb 1/0.5 |
| Date Analyzed: | 02/23/24 | Data File: | 022309.D |
| Matrix: | Soil | Instrument: | GCMS13 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 84 | 120 |
| Toluene-d8 | 103 | 73 | 128 |
| 4-Bromofluorobenzene | 106 | 57 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.002 |
| Chloroethane | <0.1 |
| 1,1-Dichloroethene | <0.002 |
| Methylene chloride | <0.2 |
| trans-1,2-Dichloroethene | <0.002 |
| 1,1-Dichloroethane | <0.002 |
| cis-1,2-Dichloroethene | <0.002 |
| 1,2-Dichloroethane (EDC) | <0.002 |
| 1,1,1-Trichloroethane | <0.002 |
| Trichloroethene | <0.002 |
| Tetrachloroethene | <0.002 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | HA-1-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-29 |
| Date Analyzed: | 01/31/24 | Data File: | 013113.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 115 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 104 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | HA-2-GW | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 401358-30 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 102 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/31/24 | Lab ID: | 04-0246 mb |
| Date Analyzed: | 01/31/24 | Data File: | 013109.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 105 | 78 | 126 |
| Toluene-d8 | 90 | 84 | 115 |
| 4-Bromofluorobenzene | 105 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|--------------------------|-----------------------------|
| Vinyl chloride | <0.02 |
| Chloroethane | <1 |
| 1,1-Dichloroethene | <1 |
| Methylene chloride | <5 |
| trans-1,2-Dichloroethene | <1 |
| 1,1-Dichloroethane | <1 |
| cis-1,2-Dichloroethene | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| 1,1,1-Trichloroethane | <1 |
| Trichloroethene | <0.5 |
| Tetrachloroethene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-01 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013113.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 90 | 10 | 198 |
| 2-Fluorobiphenyl | 98 | 45 | 117 |
| 2,4,6-Tribromophenol | 108 | 11 | 158 |
| Terphenyl-d14 | 103 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-02 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013011.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 10 | 198 |
| 2-Fluorobiphenyl | 85 | 45 | 117 |
| 2,4,6-Tribromophenol | 83 | 11 | 158 |
| Terphenyl-d14 | 88 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-03 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013114.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 86 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-04 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013115.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 65 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 81 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-06 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013116.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 87 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.29 |
| 2-Methylnaphthalene | 1.2 |
| 1-Methylnaphthalene | 0.60 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.037 |
| Anthracene | 0.018 |
| Fluoranthene | <0.01 |
| Pyrene | 0.011 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-1-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-07 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013117.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 10 | 198 |
| 2-Fluorobiphenyl | 76 | 45 | 117 |
| 2,4,6-Tribromophenol | 87 | 11 | 158 |
| Terphenyl-d14 | 80 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.35 |
| 2-Methylnaphthalene | 1.0 |
| 1-Methylnaphthalene | 0.46 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.025 |
| Anthracene | 0.012 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S1.5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-08 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013016.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 | 10 | 198 |
| 2-Fluorobiphenyl | 75 | 45 | 117 |
| 2,4,6-Tribromophenol | 79 | 11 | 158 |
| Terphenyl-d14 | 77 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | 0.17 |
| Pyrene | 0.32 |
| Benz(a)anthracene | 0.16 |
| Chrysene | 0.24 |
| Benzo(a)pyrene | 0.26 |
| Benzo(b)fluoranthene | 0.41 |
| Benzo(k)fluoranthene | 0.14 |
| Indeno(1,2,3-cd)pyrene | 0.17 |
| Dibenz(a,h)anthracene | 0.049 |
| Benzo(g,h,i)perylene | 0.13 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-09 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013118.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 10 | 198 |
| 2-Fluorobiphenyl | 68 | 45 | 117 |
| 2,4,6-Tribromophenol | 79 | 11 | 158 |
| Terphenyl-d14 | 76 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-10 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013119.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 61 | 10 | 198 |
| 2-Fluorobiphenyl | 70 | 45 | 117 |
| 2,4,6-Tribromophenol | 84 | 11 | 158 |
| Terphenyl-d14 | 78 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-11 1/5 |
| Date Analyzed: | 02/01/24 | Data File: | 020116.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 10 | 198 |
| 2-Fluorobiphenyl | 72 | 45 | 117 |
| 2,4,6-Tribromophenol | 89 | 11 | 158 |
| Terphenyl-d14 | 79 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.010 |
| 2-Methylnaphthalene | 0.18 |
| 1-Methylnaphthalene | 0.097 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S5 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-12 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013010.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 71 | 16 | 137 |
| 2-Fluorobiphenyl | 76 | 46 | 122 |
| 2,4,6-Tribromophenol | 79 | 17 | 154 |
| Terphenyl-d14 | 74 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013011.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 16 | 137 |
| 2-Fluorobiphenyl | 72 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 69 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 24 ve |
| 2-Methylnaphthalene | 27 ve |
| 1-Methylnaphthalene | 13 ve |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.21 |
| Anthracene | 0.12 |
| Fluoranthene | 0.036 |
| Pyrene | 0.052 |
| Benz(a)anthracene | 0.050 |
| Chrysene | 0.019 |
| Benzo(a)pyrene | 0.022 |
| Benzo(b)fluoranthene | 0.012 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | 0.014 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S7 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-14 1/250 |
| Date Analyzed: | 02/01/24 | Data File: | 020117.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 105 d | 10 | 198 |
| 2-Fluorobiphenyl | 80 d | 45 | 117 |
| 2,4,6-Tribromophenol | 184 d | 11 | 158 |
| Terphenyl-d14 | 75 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| Naphthalene | 43 |
| 2-Methylnaphthalene | 42 |
| 1-Methylnaphthalene | 18 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-2-S8 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 401358-15 1/5 |
| Date Analyzed: | 02/02/24 | Data File: | 020140.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 84 | 16 | 137 |
| 2-Fluorobiphenyl | 84 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 81 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.019 |
| 2-Methylnaphthalene | 0.029 |
| 1-Methylnaphthalene | 0.010 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S1 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-18 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013012.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 16 | 137 |
| 2-Fluorobiphenyl | 65 | 46 | 122 |
| 2,4,6-Tribromophenol | 77 | 17 | 154 |
| Terphenyl-d14 | 67 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S2 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-19 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013013.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 55 | 16 | 137 |
| 2-Fluorobiphenyl | 63 | 46 | 122 |
| 2,4,6-Tribromophenol | 72 | 17 | 154 |
| Terphenyl-d14 | 66 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-20 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013014.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 67 | 16 | 137 |
| 2-Fluorobiphenyl | 72 | 46 | 122 |
| 2,4,6-Tribromophenol | 80 | 17 | 154 |
| Terphenyl-d14 | 72 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-21 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013015.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 64 | 16 | 137 |
| 2-Fluorobiphenyl | 69 | 46 | 122 |
| 2,4,6-Tribromophenol | 75 | 17 | 154 |
| Terphenyl-d14 | 68 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013016.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 | 16 | 137 |
| 2-Fluorobiphenyl | 71 | 46 | 122 |
| 2,4,6-Tribromophenol | 83 | 17 | 154 |
| Terphenyl-d14 | 70 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 4.7 |
| 2-Methylnaphthalene | 11 ve |
| 1-Methylnaphthalene | 4.8 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | 0.11 |
| Anthracene | 0.062 |
| Fluoranthene | 0.021 |
| Pyrene | 0.028 |
| Benz(a)anthracene | 0.028 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | 0.011 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | HA-3-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-23 1/50 |
| Date Analyzed: | 02/01/24 | Data File: | 020118.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 d | 10 | 198 |
| 2-Fluorobiphenyl | 86 d | 45 | 117 |
| 2,4,6-Tribromophenol | 95 d | 11 | 158 |
| Terphenyl-d14 | 90 d | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|---------------------|------------------------------|
| 2-Methylnaphthalene | 14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S3 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-24 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013017.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 53 | 16 | 137 |
| 2-Fluorobiphenyl | 62 | 46 | 122 |
| 2,4,6-Tribromophenol | 64 | 17 | 154 |
| Terphenyl-d14 | 63 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.010 |
| 2-Methylnaphthalene | 0.026 |
| 1-Methylnaphthalene | 0.011 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S4 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-25 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013018.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 57 | 16 | 137 |
| 2-Fluorobiphenyl | 66 | 46 | 122 |
| 2,4,6-Tribromophenol | 67 | 17 | 154 |
| Terphenyl-d14 | 64 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-S6 | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-27 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013019.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 16 | 137 |
| 2-Fluorobiphenyl | 76 | 46 | 122 |
| 2,4,6-Tribromophenol | 83 | 17 | 154 |
| Terphenyl-d14 | 71 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.49 |
| 2-Methylnaphthalene | 0.60 |
| 1-Methylnaphthalene | 0.25 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | 0.020 |
| Phenanthrene | 0.030 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | MW-23D-DUP | Client: | Haley & Aldrich, Inc |
| Date Received: | 01/29/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 401358-28 1/5 |
| Date Analyzed: | 01/30/24 | Data File: | 013020.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 69 | 16 | 137 |
| 2-Fluorobiphenyl | 71 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 68 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | 0.35 |
| 2-Methylnaphthalene | 0.42 |
| 1-Methylnaphthalene | 0.18 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | 0.013 |
| Phenanthrene | 0.020 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 04-0260 mb 1/5 |
| Date Analyzed: | 01/31/24 | Data File: | 013108.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 88 | 10 | 198 |
| 2-Fluorobiphenyl | 95 | 45 | 117 |
| 2,4,6-Tribromophenol | 93 | 11 | 158 |
| Terphenyl-d14 | 102 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 01/30/24 | Lab ID: | 04-0253 mb2 1/5 |
| Date Analyzed: | 02/01/24 | Data File: | 020109.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 104 | 10 | 198 |
| 2-Fluorobiphenyl | 107 | 45 | 117 |
| 2,4,6-Tribromophenol | 108 | 11 | 158 |
| Terphenyl-d14 | 108 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/01/24 | Lab ID: | 04-0263 mb2 1/5 |
| Date Analyzed: | 02/02/24 | Data File: | 020139.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 94 | 16 | 137 |
| 2-Fluorobiphenyl | 91 | 46 | 122 |
| 2,4,6-Tribromophenol | 76 | 17 | 154 |
| Terphenyl-d14 | 87 | 31 | 167 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| 2-Methylnaphthalene | <0.01 |
| 1-Methylnaphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

Date Extracted: 01/31/24

Date Analyzed: 01/31/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| HA-1-GW 401358-29 | 1,200 |
| HA-2-GW 401358-30 | 1,200 |
| HA-3-GW 401358-31 | 8,300 |
| Dup-01 401358-32 | 7,200 |
| Method Blank I4-0069 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 401389-42 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|----------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Gasoline | mg/kg (ppm) | 40 | 8.9 | 88 b | 90 b | 50-150 | 2 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | mg/kg (ppm) | 40 | 112 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401331-31 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 1.0 | <0.04 | 69 | 70 | 50-150 | 1 |
| Toluene | mg/kg (ppm) | 1.0 | <0.04 | 68 | 70 | 50-150 | 3 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | <0.04 | 67 | 71 | 50-150 | 6 |
| Xylenes | mg/kg (ppm) | 3.0 | <0.12 | 67 | 73 | 50-150 | 9 |
| Gasoline | mg/kg (ppm) | 40 | <10 | 68 | 70 | 50-150 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 92 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 93 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 97 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 100 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 107 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401350-31 Matrix Spike

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 1.0 | <0.02 | 83 | 86 | 50-150 | 4 |
| Toluene | mg/kg (ppm) | 1.0 | <0.02 | 79 | 81 | 50-150 | 2 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | <0.02 | 76 | 78 | 50-150 | 3 |
| Xylenes | mg/kg (ppm) | 3.0 | <0.06 | 77 | 77 | 50-150 | 0 |
| Gasoline | mg/kg (ppm) | 40 | <5 | 97 | 92 | 50-150 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|--------------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 1.0 | 97 | 70-130 |
| Toluene | mg/kg (ppm) | 1.0 | 95 | 70-130 |
| Ethylbenzene | mg/kg (ppm) | 1.0 | 89 | 70-130 |
| Xylenes | mg/kg (ppm) | 3.0 | 87 | 70-130 |
| Gasoline | mg/kg (ppm) | 40 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 401358-29 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|--------------|--------------------|------------------|---------------------|-------------------|
| Benzene | ug/L (ppb) | <1 | <1 | nm |
| Toluene | ug/L (ppb) | 1.8 | 1.8 | 0 |
| Ethylbenzene | ug/L (ppb) | <1 | <1 | nm |
| Xylenes | ug/L (ppb) | <3 | <3 | nm |
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | ug/L (ppb) | 50 | 102 | 70-130 |
| Toluene | ug/L (ppb) | 50 | 96 | 70-130 |
| Ethylbenzene | ug/L (ppb) | 50 | 90 | 70-130 |
| Xylenes | ug/L (ppb) | 150 | 87 | 70-130 |
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401331-31 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 200 | 108 | 110 | 64-136 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 100 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401358-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 110 | 116 | 64-136 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 110 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 401358-15 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | (Wet wt) Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 84 | 84 | 64-136 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 84 | 78-121 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 104 | 100 | 65-151 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401358-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 100 | 95 | 75-125 | 5 |
| Lead | mg/kg (ppm) | 50 | <5 | 96 | 94 | 75-125 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 98 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 401358-27 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 113 | 99 | 75-125 | 13 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 97 | 75-125 | 7 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 97 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 99 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 402008-01 x5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | mg/kg (ppm) | 10 | <5 | 102 | 99 | 75-125 | 3 |
| Lead | mg/kg (ppm) | 50 | <5 | 104 | 103 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | mg/kg (ppm) | 10 | 94 | 80-120 |
| Lead | mg/kg (ppm) | 50 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 68 | 68 | 10-142 | 0 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 93 | 98 | 10-126 | 5 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 93 | 97 | 10-138 | 4 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 94 | 90 | 10-163 | 4 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 93 | 89 | 10-176 | 4 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 98 | 94 | 10-176 | 4 |
| Acetone | mg/kg (ppm) | 10 | <5 | 99 | 93 | 10-163 | 6 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 101 | 100 | 10-160 | 1 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 107 | 104 | 10-137 | 3 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 95 | 93 | 10-156 | 2 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 102 | 105 | 21-145 | 3 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 101 | 98 | 14-137 | 3 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 19-140 | 0 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 109 | 10-158 | 2 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 97 | 99 | 25-135 | 2 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 101 | 99 | 19-147 | 2 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 110 | 107 | 12-160 | 3 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 10-156 | 0 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 17-140 | 2 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 103 | 105 | 9-164 | 2 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 100 | 100 | 29-129 | 0 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 99 | 101 | 21-139 | 2 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 101 | 100 | 30-135 | 1 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 23-155 | 2 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 99 | 99 | 23-145 | 0 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 102 | 101 | 24-155 | 1 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 104 | 107 | 28-144 | 3 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 97 | 102 | 35-130 | 5 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 26-149 | 3 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 106 | 108 | 10-205 | 2 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 98 | 102 | 15-166 | 4 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 107 | 106 | 31-137 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 103 | 101 | 20-133 | 2 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 103 | 107 | 28-150 | 4 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 104 | 106 | 28-142 | 2 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 102 | 32-129 | 2 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 103 | 32-137 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 100 | 106 | 31-143 | 6 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 101 | 103 | 34-136 | 2 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 99 | 100 | 33-134 | 1 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 101 | 104 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 100 | 102 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 104 | 109 | 21-156 | 5 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 23-146 | 3 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 108 | 107 | 34-130 | 1 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 105 | 18-149 | 1 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 110 | 104 | 28-140 | 6 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 110 | 110 | 25-144 | 0 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 102 | 31-134 | 1 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 31-136 | 0 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 103 | 101 | 30-137 | 2 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 103 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 106 | 23-145 | 0 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 106 | 21-149 | 1 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 101 | 30-131 | 1 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 29-129 | 2 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 102 | 101 | 31-132 | 1 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 104 | 102 | 11-161 | 2 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 105 | 103 | 22-142 | 2 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 118 | 111 | 10-142 | 6 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 14-157 | 2 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 107 | 107 | 20-144 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 76 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 92 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 94 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 98 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 92 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 94 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 91 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 102 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 97 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 88 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 100 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 96 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 99 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 100 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 95 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 98 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 82 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 103 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 96 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 96 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 101 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 96 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 94 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 95 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 103 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 95 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 99 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 101 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 96 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 101 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 102 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 97 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 102 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 100 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 103 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 99 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 96 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 99 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 101 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 99 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 98 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 98 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 98 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 106 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 107 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 107 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 110 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 114 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 104 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 107 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 106 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 106 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 109 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 104 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 107 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 111 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 107 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 118 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 106 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 111 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-24 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 100 | 103 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 120 | 125 | 10-126 | 4 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 119 | 118 | 10-138 | 1 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 101 | 100 | 10-163 | 1 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 99 | 100 | 10-176 | 1 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 109 | 109 | 10-176 | 0 |
| Acetone | mg/kg (ppm) | 10 | <5 | 119 | 131 | 10-163 | 10 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 121 | 119 | 10-160 | 2 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 133 | 125 | 10-137 | 6 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 123 | 121 | 10-156 | 2 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 135 | 138 | 21-145 | 2 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 127 | 130 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 135 | 133 | 19-140 | 1 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 133 | 138 | 10-158 | 4 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 131 | 130 | 25-135 | 1 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 132 | 132 | 21-145 | 0 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 142 | 143 | 19-147 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 141 | 140 | 12-160 | 1 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 129 | 132 | 10-156 | 2 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 134 | 128 | 17-140 | 5 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 139 | 136 | 9-164 | 2 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 132 vo | 130 vo | 29-129 | 2 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 128 | 128 | 21-139 | 0 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 134 | 133 | 30-135 | 1 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 140 | 139 | 23-155 | 1 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 130 | 129 | 23-145 | 1 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 139 | 138 | 24-155 | 1 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 142 | 139 | 28-144 | 2 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 138 vo | 35-130 | 2 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 140 | 146 | 26-149 | 4 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 145 | 150 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <0.5 | 143 | 144 | 15-166 | 1 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 142 vo | 148 vo | 31-137 | 4 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 135 vo | 133 | 20-133 | 1 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 138 | 143 | 28-150 | 4 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 141 | 143 vo | 28-142 | 1 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 140 vo | 32-129 | 4 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 139 vo | 142 vo | 32-137 | 2 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 138 | 139 | 31-143 | 1 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 138 vo | 139 vo | 34-136 | 1 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 135 vo | 138 vo | 33-134 | 2 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 140 vo | 143 vo | 35-137 | 2 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 137 | 137 | 31-142 | 0 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 141 | 146 | 21-156 | 3 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 146 | 141 | 23-146 | 3 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 146 vo | 143 vo | 34-130 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 147 | 143 | 18-149 | 3 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 149 vo | 146 vo | 28-140 | 2 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 157 vo | 153 vo | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 143 vo | 140 vo | 31-134 | 2 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 145 vo | 142 vo | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 141 vo | 139 vo | 30-137 | 1 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 146 | 141 | 10-182 | 3 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 148 vo | 140 | 23-145 | 6 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 148 | 142 | 21-149 | 4 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 134 vo | 134 vo | 30-131 | 0 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 141 vo | 138 vo | 29-129 | 2 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 139 vo | 139 vo | 31-132 | 0 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 146 | 148 | 11-161 | 1 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 138 | 139 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 151 vo | 147 vo | 10-142 | 3 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 142 | 140 | 14-157 | 1 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 144 | 142 | 20-144 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 107 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 107 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 102 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 99 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 102 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 102 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 111 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 112 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 99 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 112 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 103 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 109 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 110 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 106 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 108 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 107 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 113 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 107 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 109 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 111 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 105 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 101 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 107 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 112 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 107 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 113 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 110 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 110 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 116 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 120 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 120 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 111 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 114 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 119 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 110 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 114 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 115 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 112 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 110 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 112 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 111 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 119 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 113 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 116 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 115 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 117 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 123 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 112 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 115 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 111 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 114 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 115 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 114 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 109 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 112 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 110 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 116 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 112 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 120 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 113 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 115 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 401358-15 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | <0.5 | 71 | 69 | 10-142 | 3 |
| Chloromethane | mg/kg (ppm) | 2 | <0.5 | 98 | 96 | 10-126 | 2 |
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 95 | 90 | 10-138 | 5 |
| Bromomethane | mg/kg (ppm) | 2 | <0.5 | 87 | 80 | 10-163 | 8 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 83 | 75 | 10-176 | 10 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | <0.5 | 89 | 86 | 10-176 | 3 |
| Acetone | mg/kg (ppm) | 10 | <5 | 91 | 88 | 10-163 | 3 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 96 | 10-160 | 4 |
| Hexane | mg/kg (ppm) | 2 | <0.25 | 104 | 103 | 10-137 | 1 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 96 | 90 | 10-156 | 6 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 21-145 | 3 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 96 | 14-137 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 103 | 99 | 19-140 | 4 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 109 | 98 | 10-158 | 11 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 100 | 95 | 25-135 | 5 |
| Chloroform | mg/kg (ppm) | 2 | <0.05 | 103 | 100 | 21-145 | 3 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | <1 | 105 | 101 | 19-147 | 4 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 109 | 105 | 12-160 | 4 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 101 | 97 | 10-156 | 4 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 100 | 101 | 17-140 | 1 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | <0.05 | 105 | 104 | 9-164 | 1 |
| Benzene | mg/kg (ppm) | 2 | <0.03 | 102 | 98 | 29-129 | 4 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 98 | 95 | 21-139 | 3 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | <0.05 | 102 | 100 | 30-135 | 2 |
| Bromodichloromethane | mg/kg (ppm) | 2 | <0.05 | 103 | 103 | 23-155 | 0 |
| Dibromomethane | mg/kg (ppm) | 2 | <0.05 | 101 | 95 | 23-145 | 6 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | <1 | 106 | 102 | 24-155 | 4 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 110 | 104 | 28-144 | 6 |
| Toluene | mg/kg (ppm) | 2 | <0.05 | 105 | 102 | 35-130 | 3 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 109 | 108 | 26-149 | 1 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 112 | 109 | 10-205 | 3 |
| 2-Hexanone | mg/kg (ppm) | 10 | <5 | 105 | 104 | 15-166 | 1 |
| 1,3-Dichloropropene | mg/kg (ppm) | 2 | <0.05 | 115 | 107 | 31-137 | 7 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 103 | 102 | 20-133 | 1 |
| Dibromochloromethane | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 28-150 | 0 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | <0.05 | 107 | 107 | 28-142 | 0 |
| Chlorobenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 101 | 32-129 | 5 |
| Ethylbenzene | mg/kg (ppm) | 2 | <0.05 | 107 | 105 | 32-137 | 2 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 107 | 100 | 31-143 | 7 |
| m,p-Xylene | mg/kg (ppm) | 4 | <0.1 | 105 | 102 | 34-136 | 3 |
| o-Xylene | mg/kg (ppm) | 2 | <0.05 | 106 | 98 | 33-134 | 8 |
| Styrene | mg/kg (ppm) | 2 | <0.05 | 106 | 103 | 35-137 | 3 |
| Isopropylbenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 102 | 31-142 | 2 |
| Bromoform | mg/kg (ppm) | 2 | <0.05 | 109 | 108 | 21-156 | 1 |
| n-Propylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 107 | 23-146 | 2 |
| Bromobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 107 | 34-130 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 109 | 109 | 18-149 | 0 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | <0.05 | 109 | 110 | 28-140 | 1 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | <0.05 | 113 | 117 | 25-144 | 3 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 106 | 106 | 31-134 | 0 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | <0.05 | 107 | 109 | 31-136 | 2 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 102 | 30-137 | 3 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | <0.05 | 106 | 104 | 10-182 | 2 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | <0.05 | 108 | 109 | 23-145 | 1 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | <0.05 | 108 | 110 | 21-149 | 2 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 101 | 101 | 30-131 | 0 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 105 | 105 | 29-129 | 0 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | <0.05 | 104 | 103 | 31-132 | 1 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | <0.5 | 108 | 105 | 11-161 | 3 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 104 | 105 | 22-142 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | <0.25 | 112 | 117 | 10-142 | 4 |
| Naphthalene | mg/kg (ppm) | 2 | <0.05 | 105 | 106 | 14-157 | 1 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | <0.25 | 107 | 106 | 20-144 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Dichlorodifluoromethane | mg/kg (ppm) | 2 | 85 | 10-146 |
| Chloromethane | mg/kg (ppm) | 2 | 108 | 27-133 |
| Vinyl chloride | mg/kg (ppm) | 2 | 107 | 22-139 |
| Bromomethane | mg/kg (ppm) | 2 | 95 | 10-201 |
| Chloroethane | mg/kg (ppm) | 2 | 94 | 10-163 |
| Trichlorofluoromethane | mg/kg (ppm) | 2 | 95 | 10-196 |
| Acetone | mg/kg (ppm) | 10 | 97 | 52-141 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 107 | 47-128 |
| Hexane | mg/kg (ppm) | 2 | 106 | 43-142 |
| Methylene chloride | mg/kg (ppm) | 2 | 101 | 10-184 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2 | 115 | 60-123 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 107 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 110 | 64-135 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2 | 118 | 52-170 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 107 | 64-135 |
| Chloroform | mg/kg (ppm) | 2 | 111 | 61-139 |
| 2-Butanone (MEK) | mg/kg (ppm) | 10 | 94 | 30-197 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 116 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 107 | 62-131 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2 | 108 | 64-136 |
| Carbon tetrachloride | mg/kg (ppm) | 2 | 113 | 60-139 |
| Benzene | mg/kg (ppm) | 2 | 108 | 65-136 |
| Trichloroethene | mg/kg (ppm) | 2 | 105 | 63-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2 | 106 | 61-145 |
| Bromodichloromethane | mg/kg (ppm) | 2 | 113 | 57-126 |
| Dibromomethane | mg/kg (ppm) | 2 | 105 | 62-123 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 10 | 109 | 45-145 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2 | 112 | 65-143 |
| Toluene | mg/kg (ppm) | 2 | 106 | 66-126 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2 | 117 | 65-131 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2 | 118 | 62-131 |
| 2-Hexanone | mg/kg (ppm) | 10 | 113 | 33-152 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2 | 118 | 67-128 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 107 | 68-128 |
| Dibromochloromethane | mg/kg (ppm) | 2 | 115 | 55-121 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2 | 112 | 66-129 |
| Chlorobenzene | mg/kg (ppm) | 2 | 107 | 67-128 |
| Ethylbenzene | mg/kg (ppm) | 2 | 110 | 64-123 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2 | 112 | 64-121 |
| m,p-Xylene | mg/kg (ppm) | 4 | 107 | 68-128 |
| o-Xylene | mg/kg (ppm) | 2 | 108 | 67-129 |
| Styrene | mg/kg (ppm) | 2 | 112 | 67-129 |
| Isopropylbenzene | mg/kg (ppm) | 2 | 108 | 68-128 |
| Bromoform | mg/kg (ppm) | 2 | 116 | 56-132 |
| n-Propylbenzene | mg/kg (ppm) | 2 | 109 | 68-129 |
| Bromobenzene | mg/kg (ppm) | 2 | 111 | 69-128 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2 | 112 | 69-129 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2 | 115 | 56-143 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2 | 119 | 61-137 |
| 2-Chlorotoluene | mg/kg (ppm) | 2 | 109 | 69-128 |
| 4-Chlorotoluene | mg/kg (ppm) | 2 | 108 | 67-127 |
| tert-Butylbenzene | mg/kg (ppm) | 2 | 107 | 69-129 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2 | 108 | 69-128 |
| sec-Butylbenzene | mg/kg (ppm) | 2 | 110 | 69-130 |
| p-Isopropyltoluene | mg/kg (ppm) | 2 | 111 | 69-130 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2 | 103 | 69-127 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2 | 107 | 68-126 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2 | 106 | 69-127 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2 | 114 | 58-138 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2 | 109 | 64-135 |
| Hexachlorobutadiene | mg/kg (ppm) | 2 | 115 | 50-153 |
| Naphthalene | mg/kg (ppm) | 2 | 110 | 62-128 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2 | 111 | 61-126 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 402324-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | <0.05 | 69 | 73 | 10-138 | 6 |
| Chloroethane | mg/kg (ppm) | 2 | <0.5 | 70 | 70 | 10-176 | 0 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 80 | 83 | 10-160 | 4 |
| Methylene chloride | mg/kg (ppm) | 2 | <0.5 | 82 | 85 | 10-156 | 4 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 79 | 81 | 14-137 | 2 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | <0.05 | 81 | 85 | 19-140 | 5 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | <0.05 | 81 | 84 | 25-135 | 4 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | <0.05 | 83 | 86 | 12-160 | 4 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | <0.05 | 83 | 87 | 10-156 | 5 |
| Trichloroethene | mg/kg (ppm) | 2 | <0.02 | 83 | 84 | 21-139 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2 | <0.025 | 81 | 86 | 20-133 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------------------|--------------------|----------------|----------------------------|------------------------|
| Vinyl chloride | mg/kg (ppm) | 2 | 74 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2 | 79 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2 | 87 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2 | 87 | 10-184 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2 | 85 | 64-132 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2 | 87 | 64-135 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2 | 84 | 64-135 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2 | 90 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2 | 90 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2 | 85 | 63-139 |
| Tetrachloroethene | mg/kg (ppm) | 2 | 88 | 68-128 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

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Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 401372-08 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|--------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 103 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 102 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 94 | 35-149 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Vinyl chloride | ug/L (ppb) | 10 | 105 | 90 | 64-142 | 15 |
| Chloroethane | ug/L (ppb) | 10 | 104 | 92 | 70-130 | 12 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 97 | 86 | 64-140 | 12 |
| Methylene chloride | ug/L (ppb) | 10 | 103 | 90 | 43-134 | 13 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 102 | 90 | 70-130 | 12 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 104 | 93 | 70-130 | 11 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 103 | 90 | 70-130 | 13 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 102 | 97 | 70-130 | 5 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 97 | 87 | 70-130 | 11 |
| Trichloroethene | ug/L (ppb) | 10 | 94 | 88 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 102 | 95 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401329-12 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 74 | 78 | 28-125 | 5 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 83 | 10-192 | 2 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 79 | 10-163 | 1 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 84 | 45-128 | 6 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 76 | 81 | 36-125 | 6 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 85 | 48-121 | 5 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 76 | 84 | 46-122 | 10 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 88 | 30-144 | 11 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 93 | 50-150 | 9 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 40-134 | 1 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 81 | 87 | 50-150 | 7 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 83 | 88 | 50-150 | 6 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 97 | 50-150 | 6 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 89 | 50-150 | 6 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 90 | 95 | 50-150 | 5 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 85 | 91 | 40-140 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 80 | 86 | 41-136 | 7 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 79 | 29-139 | 5 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 87 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 95 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 90 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 90 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 95 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 93 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 97 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 103 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 88 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 94 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 98 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 105 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 99 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 106 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 98 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 98 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 94 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

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Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 401358-01 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | <0.01 | 69 | 68 | 28-125 | 1 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 73 | 74 | 10-192 | 1 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | <0.01 | 69 | 70 | 10-163 | 1 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | <0.01 | 71 | 72 | 45-128 | 1 |
| Acenaphthene | mg/kg (ppm) | 0.83 | <0.01 | 70 | 71 | 36-125 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | <0.01 | 73 | 74 | 48-121 | 1 |
| Phenanthrene | mg/kg (ppm) | 0.83 | <0.01 | 72 | 71 | 46-122 | 1 |
| Anthracene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 73 | 30-144 | 3 |
| Fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 50-150 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | <0.01 | 70 | 69 | 40-134 | 1 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 75 | 75 | 50-150 | 0 |
| Chrysene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 77 | 50-150 | 1 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 84 | 83 | 50-150 | 1 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 78 | 77 | 50-150 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | <0.01 | 79 | 80 | 50-150 | 1 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | <0.01 | 95 | 89 | 40-140 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | <0.01 | 91 | 88 | 41-136 | 3 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | <0.01 | 87 | 85 | 29-139 | 2 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|------------------------|--------------------|----------------|----------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 73 | 57-107 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 78 | 63-112 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 74 | 63-113 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 77 | 70-130 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 76 | 66-112 |
| Fluorene | mg/kg (ppm) | 0.83 | 79 | 67-117 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 77 | 70-130 |
| Anthracene | mg/kg (ppm) | 0.83 | 79 | 70-130 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 83 | 70-130 |
| Pyrene | mg/kg (ppm) | 0.83 | 73 | 70-130 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 79 | 70-130 |
| Chrysene | mg/kg (ppm) | 0.83 | 82 | 70-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 87 | 68-120 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 80 | 67-128 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 86 | 70-130 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 94 | 67-129 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 94 | 67-128 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 91 | 65-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.83 | 85 | 84 | 57-107 | 1 |
| 2-Methylnaphthalene | mg/kg (ppm) | 0.83 | 93 | 93 | 63-112 | 0 |
| 1-Methylnaphthalene | mg/kg (ppm) | 0.83 | 88 | 88 | 63-113 | 0 |
| Acenaphthylene | mg/kg (ppm) | 0.83 | 89 | 89 | 70-130 | 0 |
| Acenaphthene | mg/kg (ppm) | 0.83 | 88 | 87 | 66-112 | 1 |
| Fluorene | mg/kg (ppm) | 0.83 | 93 | 92 | 67-117 | 1 |
| Phenanthrene | mg/kg (ppm) | 0.83 | 85 | 87 | 70-130 | 2 |
| Anthracene | mg/kg (ppm) | 0.83 | 88 | 90 | 70-130 | 2 |
| Fluoranthene | mg/kg (ppm) | 0.83 | 96 | 97 | 70-130 | 1 |
| Pyrene | mg/kg (ppm) | 0.83 | 83 | 83 | 70-130 | 0 |
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 89 | 91 | 70-130 | 2 |
| Chrysene | mg/kg (ppm) | 0.83 | 91 | 93 | 70-130 | 2 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 100 | 102 | 68-120 | 2 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 95 | 96 | 67-128 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 98 | 100 | 70-130 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 103 | 96 | 67-129 | 7 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 97 | 91 | 67-128 | 6 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.83 | 93 | 86 | 65-130 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/24

Date Received: 01/29/24

Project: Whidbey Marine 0204475-001, F&BI 401358

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| TSS | mg/L (ppm) | 20 | 98 | 96 | 35-146 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Page # 1 of 1

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email HGood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey Marine

PO #

0704475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

ANALYSES REQUESTED

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | EDB, EDC, MTBE | Lead, Arsenic | TOC | EPH/VPH | |
|-----------|--------|--------------|--------------|-------------|-----------|----------|----------|---------------|------------|---------------|---------------|---------------|----------------|---------------|-----|---------|--|
| HA-1-51 | 01 A-F | 1/26 | 0915 | S | 6 | X | X | | | X | X | | X | X | | | X per HG 1/29/24 ME Notes A-per HG 01/31/24 ME |
| HA-1-52 | 02 | | 0935 1045 | | | X | X | | | X | X | | X | X | X | | Hold for |
| HA-1-53 | 03 | | 1045 1055 | | | X | X | | | X | X | | X | X | | | Analysis |
| HA-1-54 | 04 | | 1055 1105 | | | X | X | | | X | X | | X | X | X | | Provide |
| HA-1-55 | 05 | | 1105 1430 | | | Hold | | | | | | | | | | | chromatograms |
| HA-1-56 | 06 | | 1430 | | | X | X | | | X | X | | X | X | X | A | w/ TPH |
| HA-1-DUP | 07 | | 1500 | | | X | X | | | X | X | | X | X | X | A | analyses and |
| HA-2-51.5 | 08 | 1/24 | 1305 | | | X | X | | | X | X | | X | X | | | TPH prelims for |
| HA-2-52 | 09 | | 1320 | | | X | X | | | X | X | | X | X | | | possible EPH/ |
| HA-2-53 | 10 | | 1340 | | | X | X | | | X | X | | X | X | X | | VPH follow-ups |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|-----------------------|--------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Salazar</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Young</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: _____ | | | | |
| Received by: _____ | | Sample received at <u>3</u> °C | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email H61000@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 2 of 4

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| HaleyWarren.com | | | | | | ANALYSES REQUESTED | | | | | | | | | | | Notes | |
|-----------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|-----------------------|----------------|---------------|-------|-----|---|--|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | EPH/VPH PCBs-EPA-8082 | EDB, EDC, MTBE | Lead, Arsenic | cVOCs | TOC | | |
| HA-2-54 | 11 A-F | 1/24 | 1445 | S | 6 | X | X | | | X | X | | X | X | | | Hold for | |
| HA-2-55 | 12 | | 1455 | | | X | X | | | X | X | | X | X | | X | Analysis | |
| HA-2-56 | 13 | | 1505 | | | Hold | | | | | | | | | | | Provide chromatograms w/ TPH analyses and TPH prelims for possible EPH/VPH follow-ups | |
| HA-2-57 | 14 | 1/25 | 1045 | | | X | X | | | X | X | A | X | X | | X | | |
| HA-2-58 | 15 | | 1055 | | | Hold A A A A | | | | | | | | | | | | |
| HA-2-59 | 16 | | 1500 | | | X | X | X | | | | | | | X | | | |
| HA-2-510 | 17 | | 1510 | | | X | X | X | | | | | | | X | | | |
| HA-3-51 | 18 | 1/23 | 1040 | | | X | X | | | X | X | | X | X | | | | |
| HA-3-52 | 19 | | 1100 | | | X | X | | | X | X | | X | X | | | | |
| HA-3-53 | 20 | | 1230 | | | X | X | | | X | X | | X | X | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|-------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Jones</u> | <u>R&B</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: | | | | |
| Received by: | | Sample received at <u>3°C</u> | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24 VW5/J5/C4/N3

Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email HGood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

Whidbey Marine

PO #

0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # 3 of 34

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | | Notes |
|------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|--------------------------|----------------|-----|-------|-----|---------------|---------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | EPH/VPH PCBs EPA 8082 | EDB, EDC, MTBE | TOC | cVOCs | TSS | Lead, Arsenic | |
| HA-3-54 | 21 A-F | ↓ | 1240 | S | 6 | X | X | | | X | X | | X | | | | | X Add for |
| HA-3-55 | 22 | ↓ | 1250 | | | Hold | | | | | | | | | | | | Analyse |
| HA-3-56 | 23 | ↓ | 1640 | | | X | X | | | X | X | A | X | | | | | X Provide |
| MW-23D-53 | 24 | 1/22 | 1200 | | | X | X | | | X | X | | X | | | | | X chromatogr |
| MW-23D-54 | 25 | ↓ | 1210 | | | X | X | | | X | X | | X | X | | | | X analyses |
| MW-23D-55 | 26 | ↓ | 1220 | | | X | X | X | | | | | | | X | | | X and TPH |
| MW-23D-56 | 27 | ↓ | 1510 | | | X | X | | | X | X | A | X | X | | | | X prelims for |
| MW-23D-DUP | 28 ✓ | ↓ | 1530 | ↓ | ↓ | X | X | | | X | X | | X | X | | | | X EPH/VPH |
| HA-1-GW | 29 A/H | 1/26 | 1200 | W | 8 | X | X | X | | | | | | | X | X | | X follow-ups |
| HA-2-GW | 30 A/H | 1/24 | 1600 | ↓ | 8 | X | X | X | | | | | | | X | X | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|---------------------------------|----------------|------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/29/24</u> | <u>820</u> |
| Received by: <u>[Signature]</u> | <u>Eric Young</u> | <u>FEB</u> | <u>1/29/24</u> | <u>820</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>3</u> °C | | |

401358

SAMPLE CHAIN OF CUSTODY

01/29/24

vw5/J5/C4/v#4 N3
Page # 4 of 4Report To Heather GoodCompany Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyaldrich.comSAMPLERS (signature) [Signature]

PROJECT NAME

PO #

Whidbey Marine0204475-001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other _____

Default: Dispose after 30 days

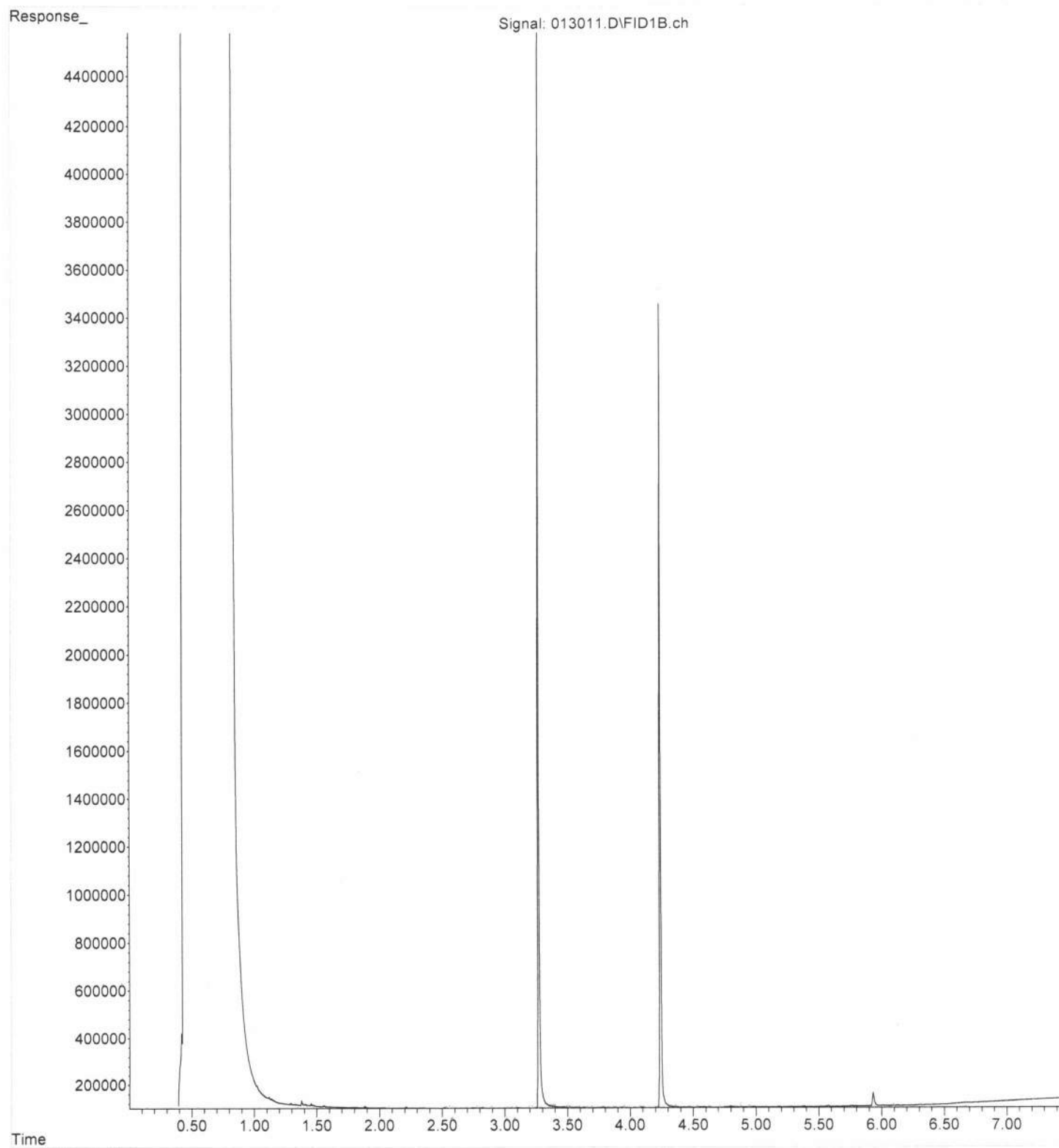
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|------------|---------------|---------------|---------------|-------------------------------------|--|--|--|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | TSS | | | |
| HA-3-GW | 31 A-G | 1/23 | 1400 | W | 8 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | <u>Hold for</u> |
| Dup-01 | 32 A-H | 1/23 | 1430 | W | 8 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | <u>Analysis</u> |
| | | | | | | | | | | | | | | | | Provide chromatograms w/ TPH analyses and TPH prelims for possible EPH/ VPH follow-ups |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------------|--------------------------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Andrew Nakahara</u> | <u>HA</u> | <u>1/24/24</u> | <u>0820</u> |
| Received by: <u>[Signature]</u> | <u>Euc [Signature]</u> | <u>FaB</u> | <u>1/24/24</u> | <u>0820</u> |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>3°C</u> | | |

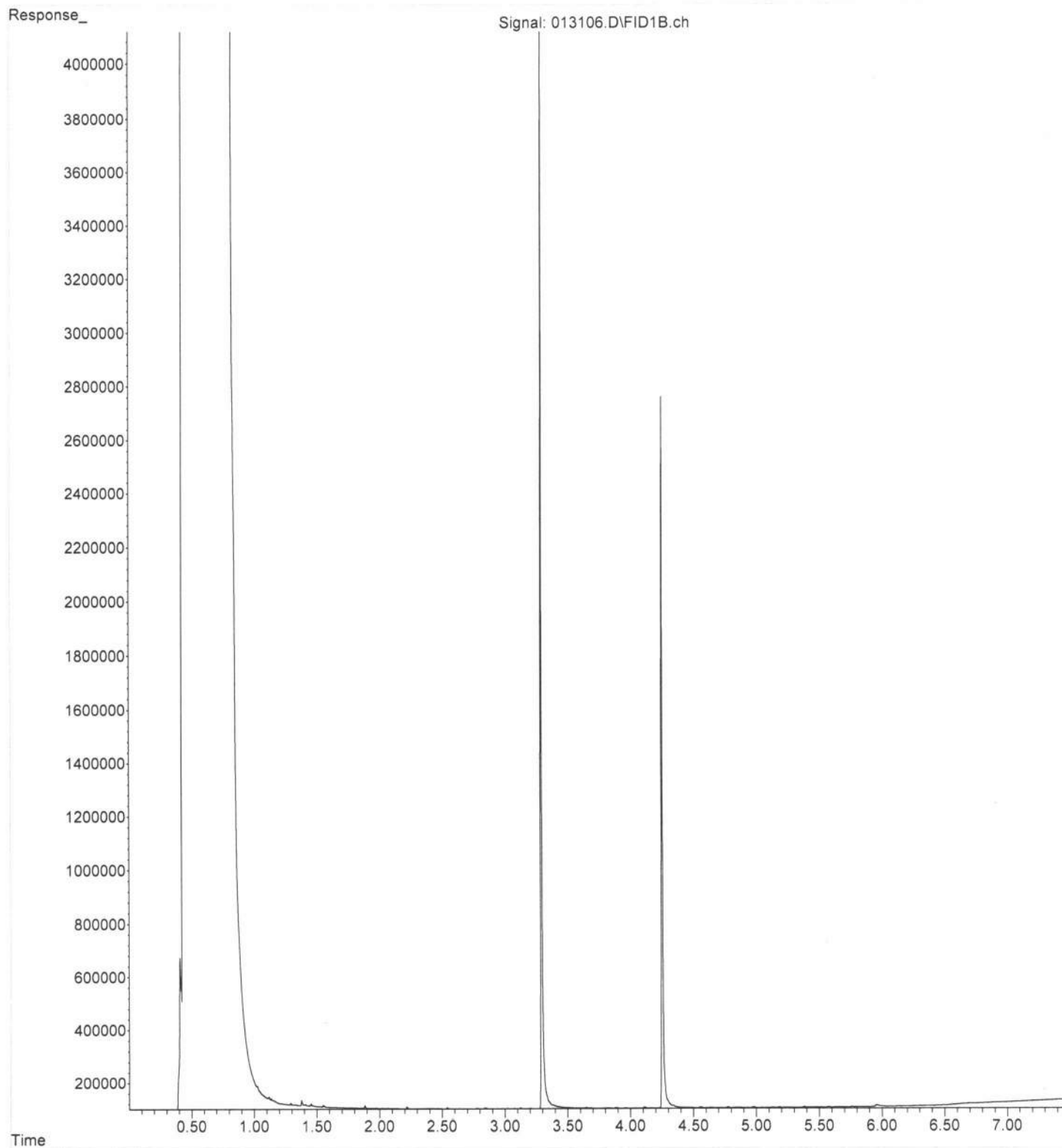
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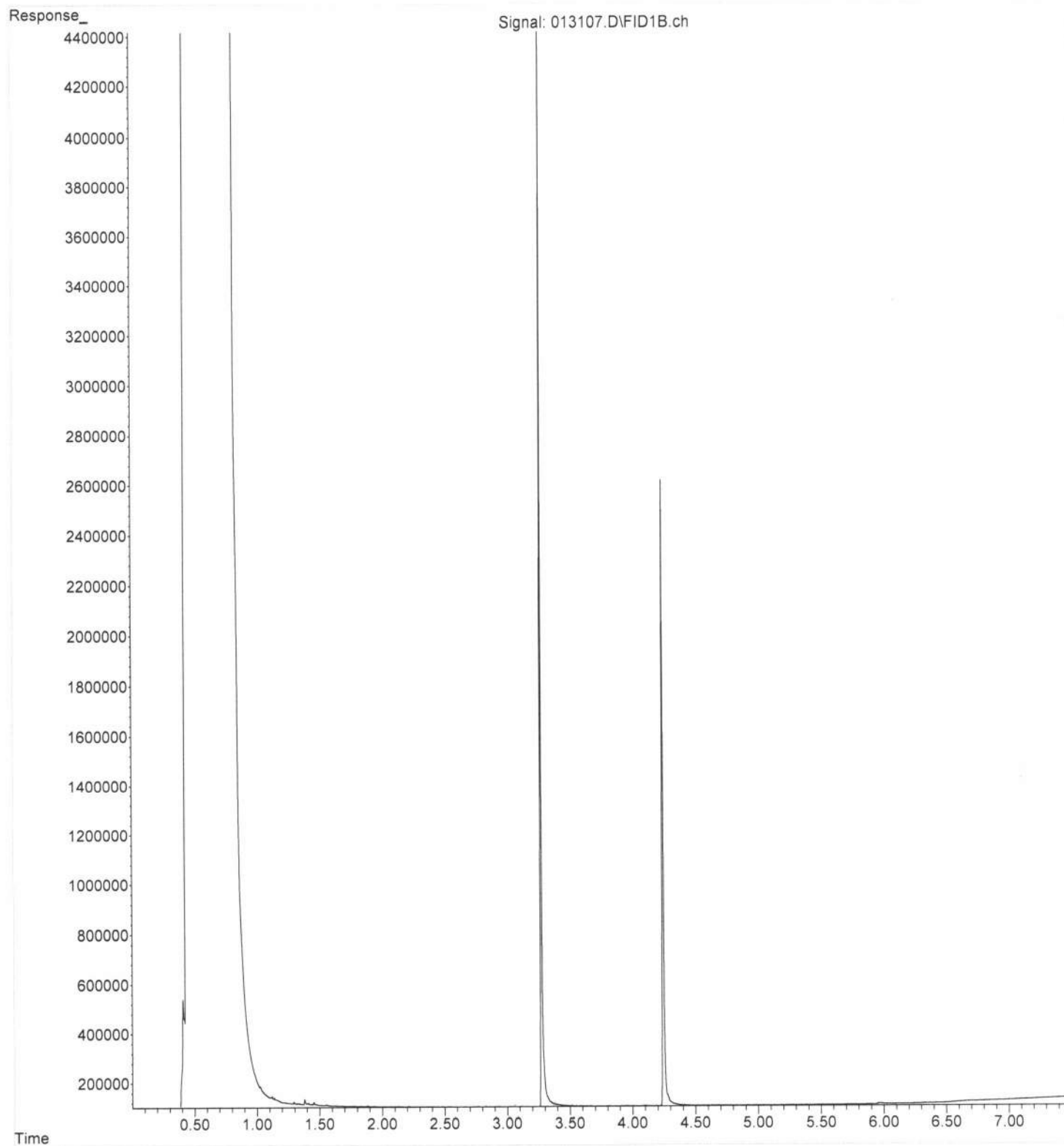
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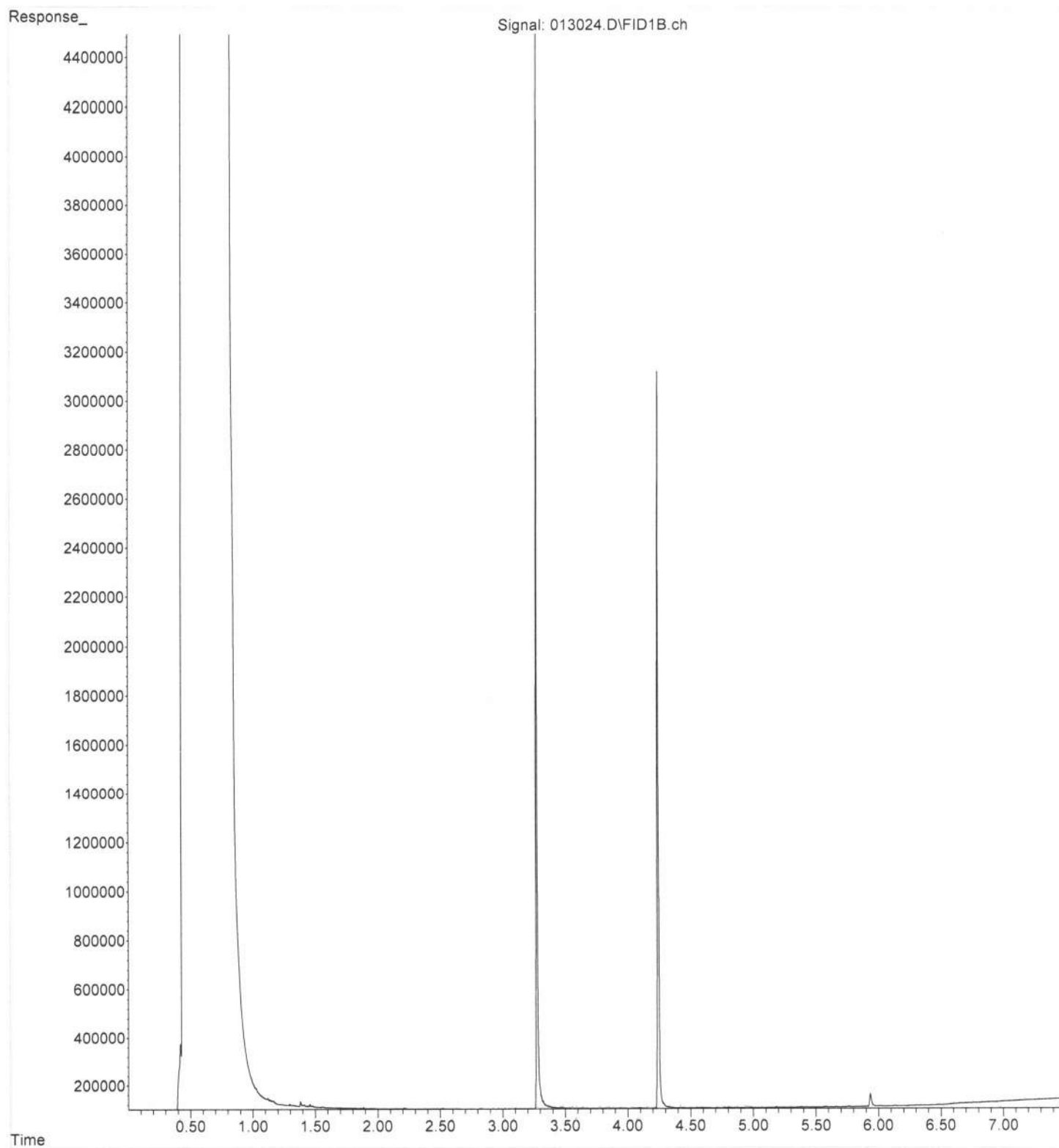
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Vial Number: 7

ERR



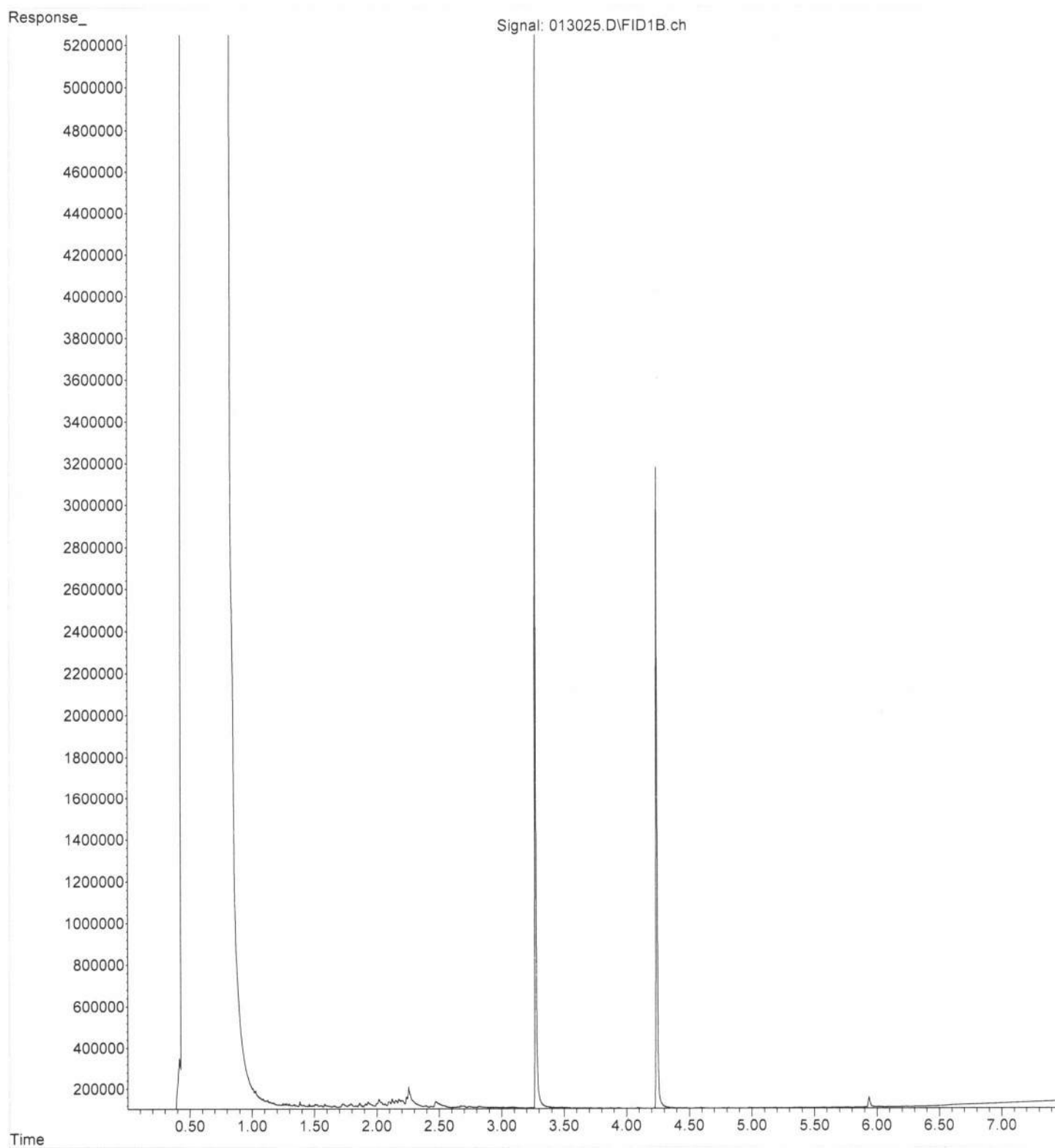
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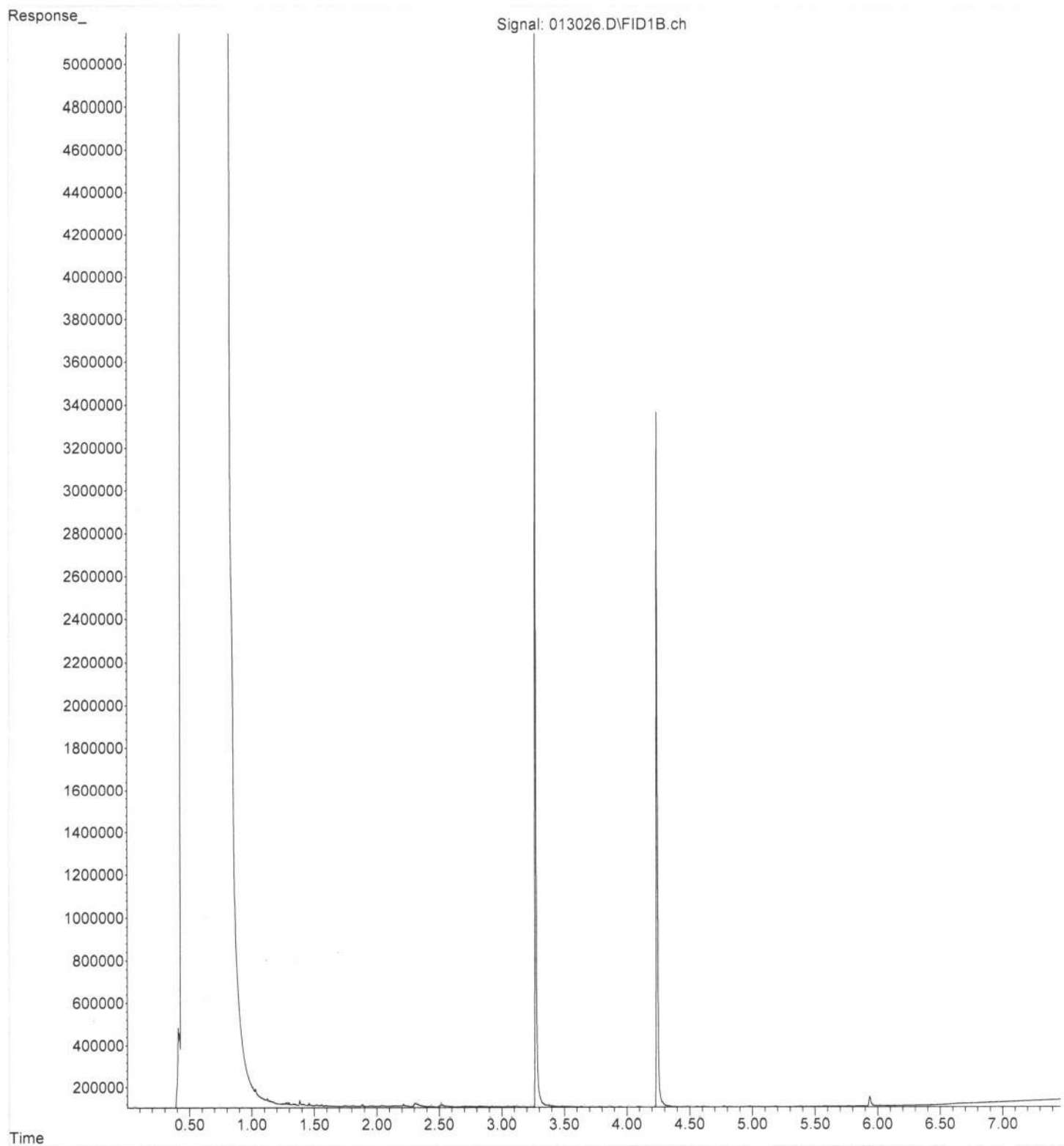
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Misc Info :
Vial Number: 16

ERR



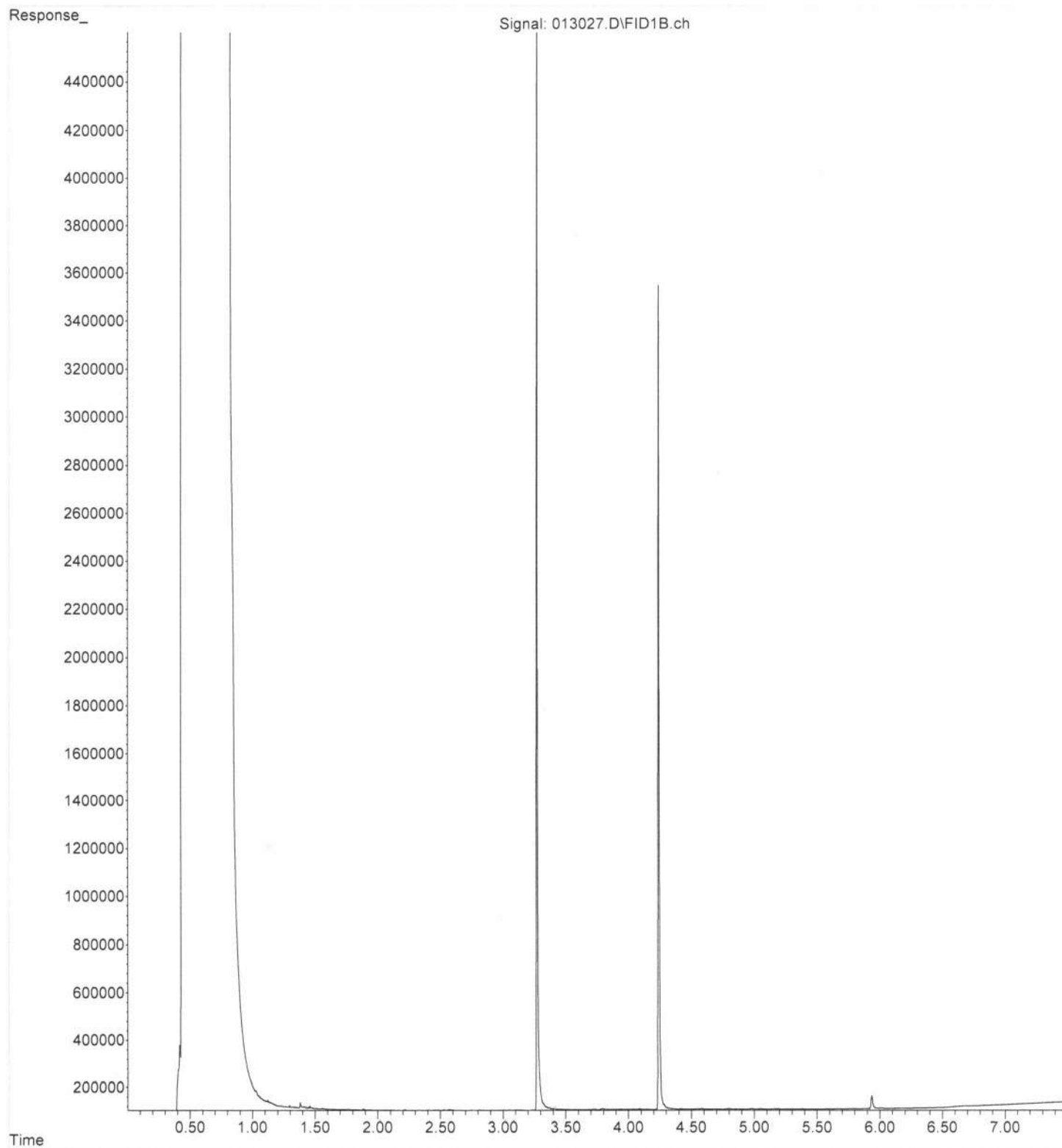
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Sample Name: 401358-07
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Vial Number: 17

ERR



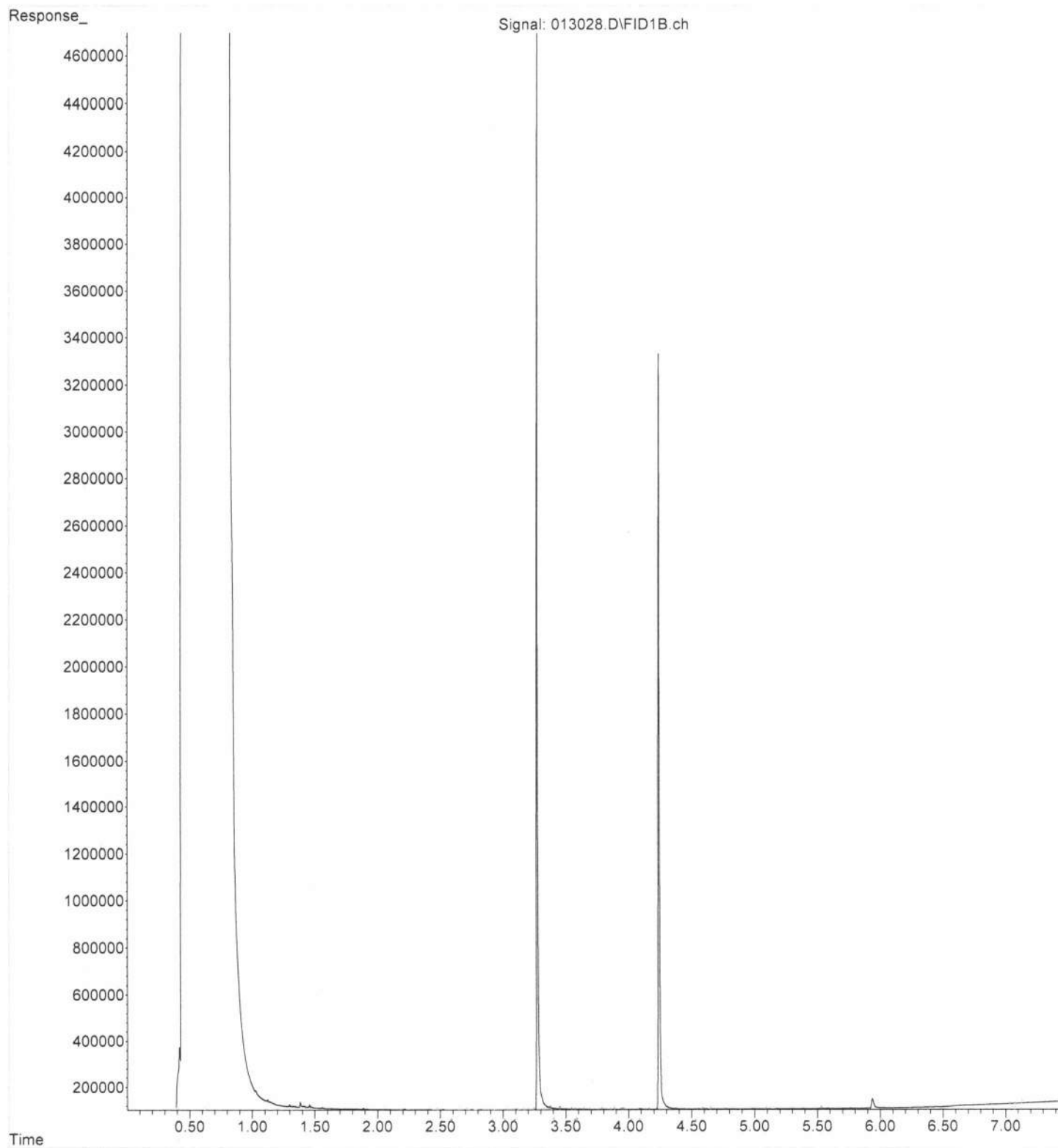
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Vial Number: 18

ERR



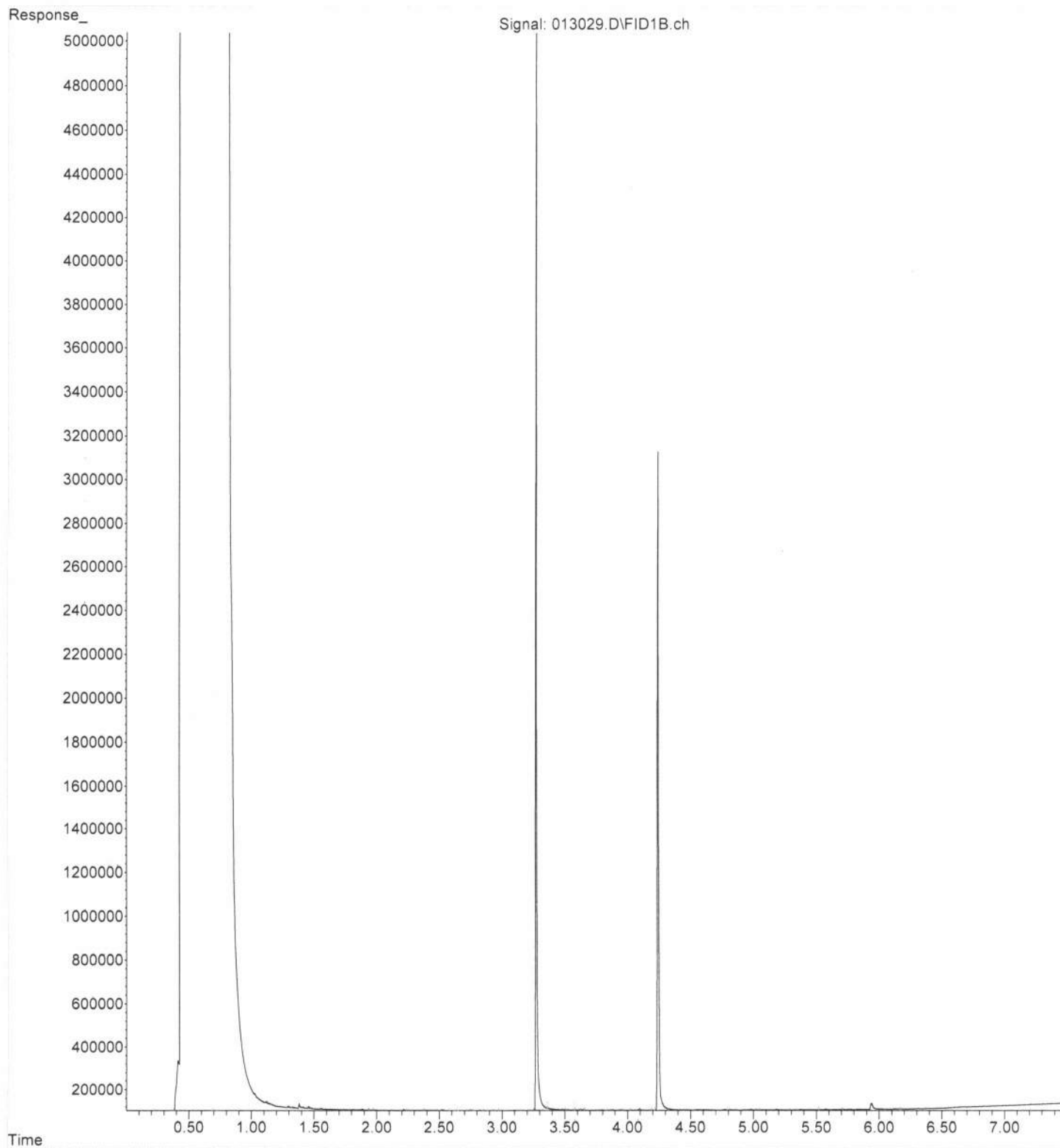
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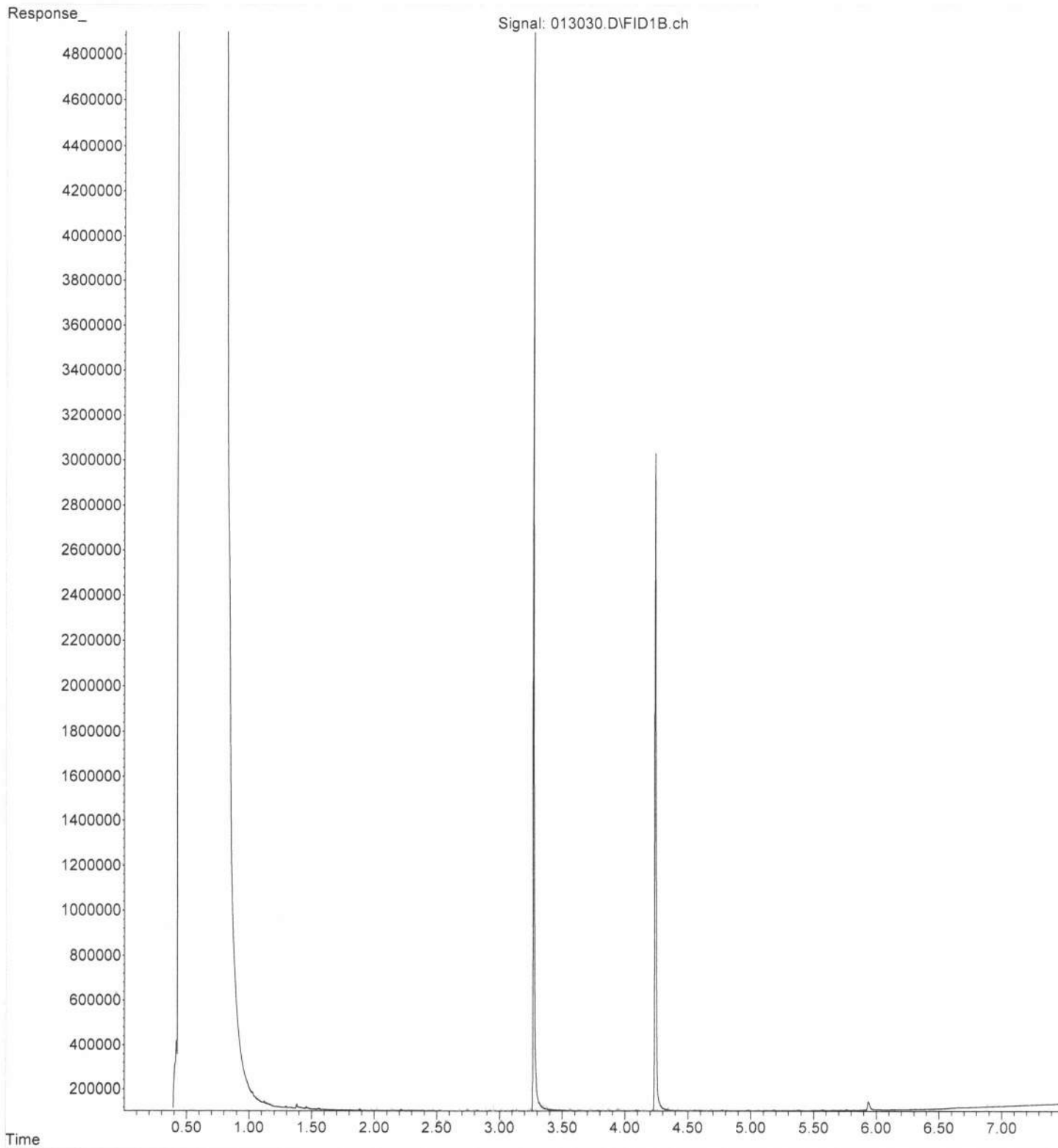
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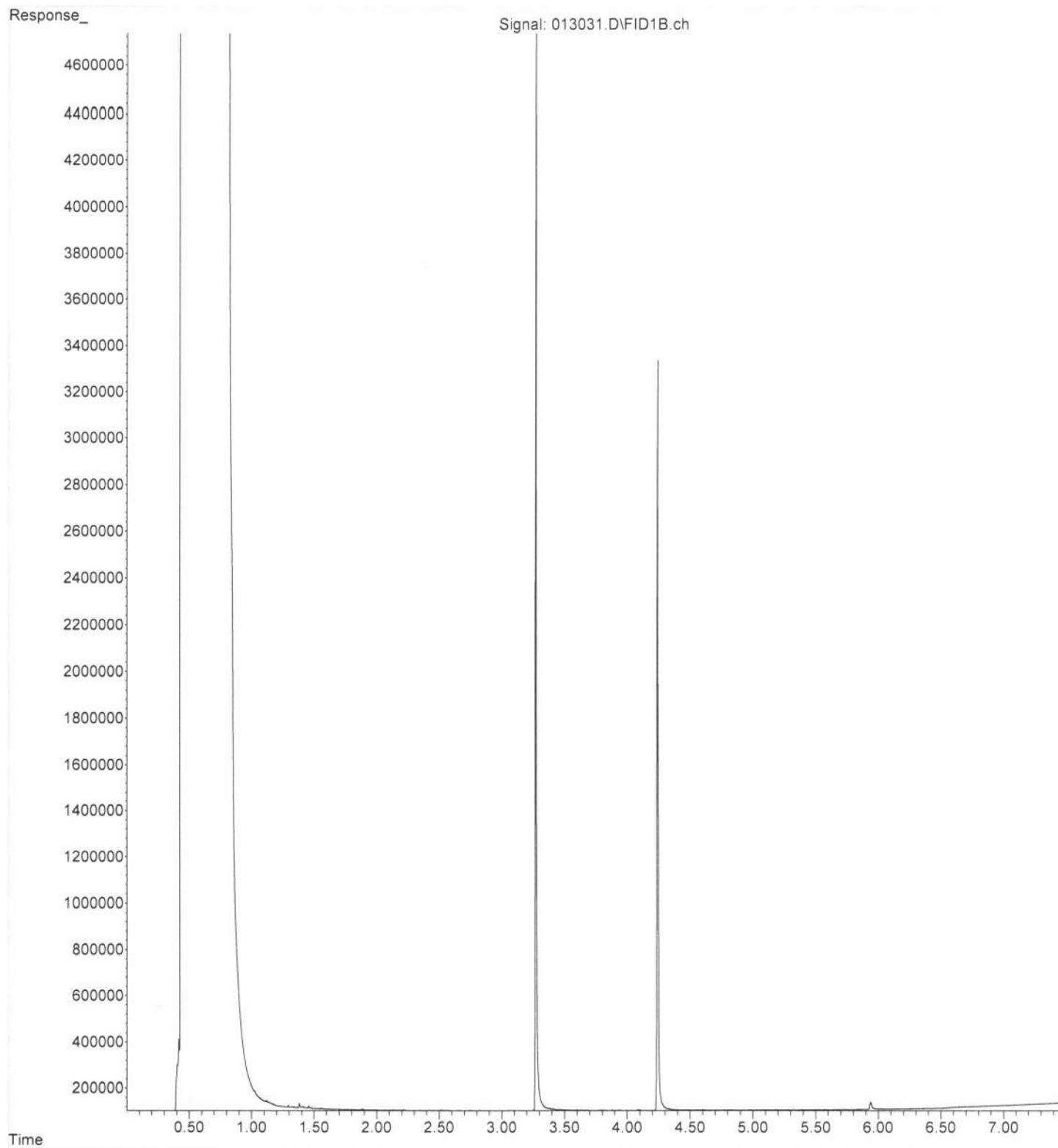
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Instrument : GC13
Sample Name: 401358-11
Misc Info :
Vial Number: 21

ERR



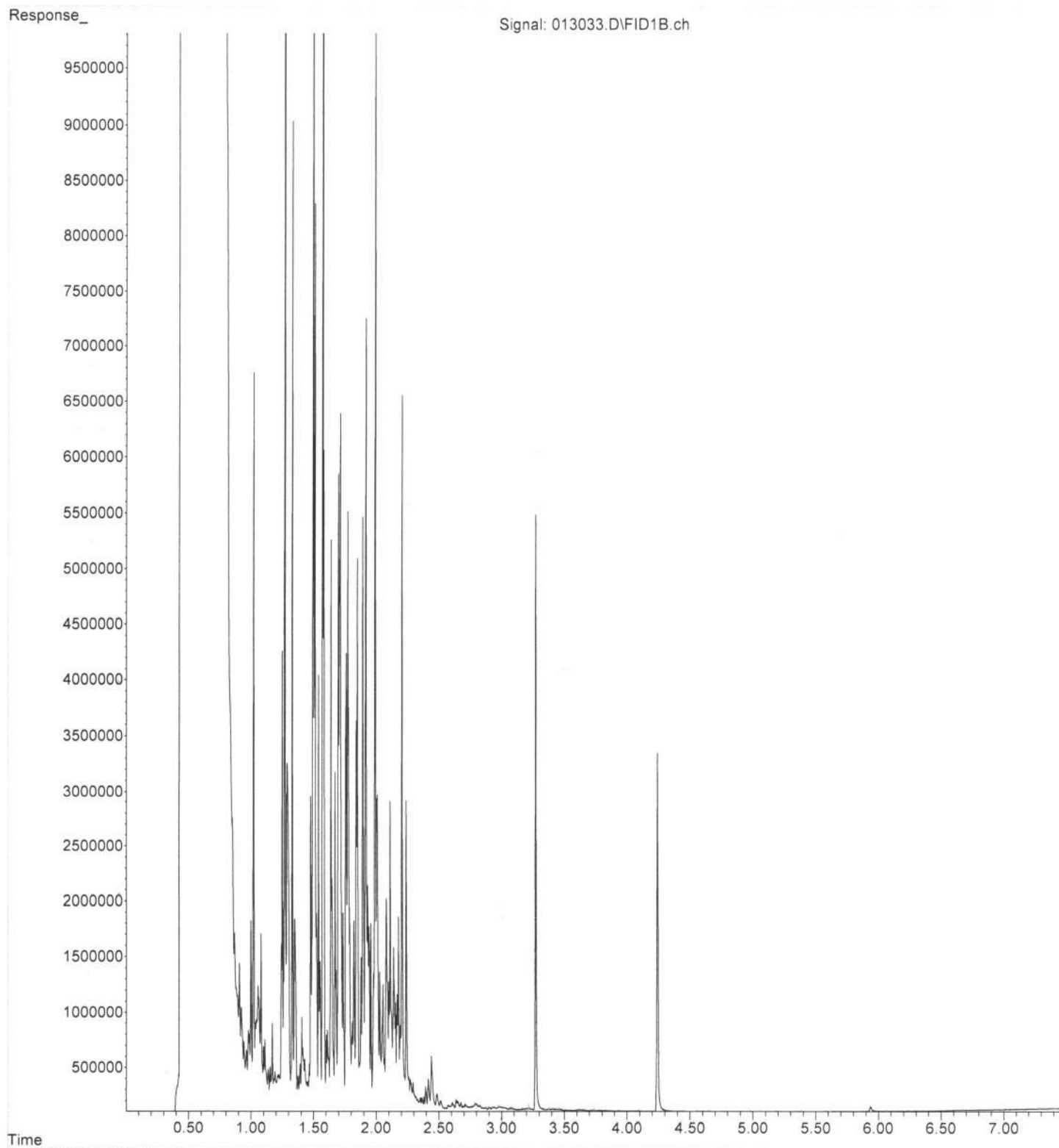
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Misc Info :
Vial Number: 22

ERR



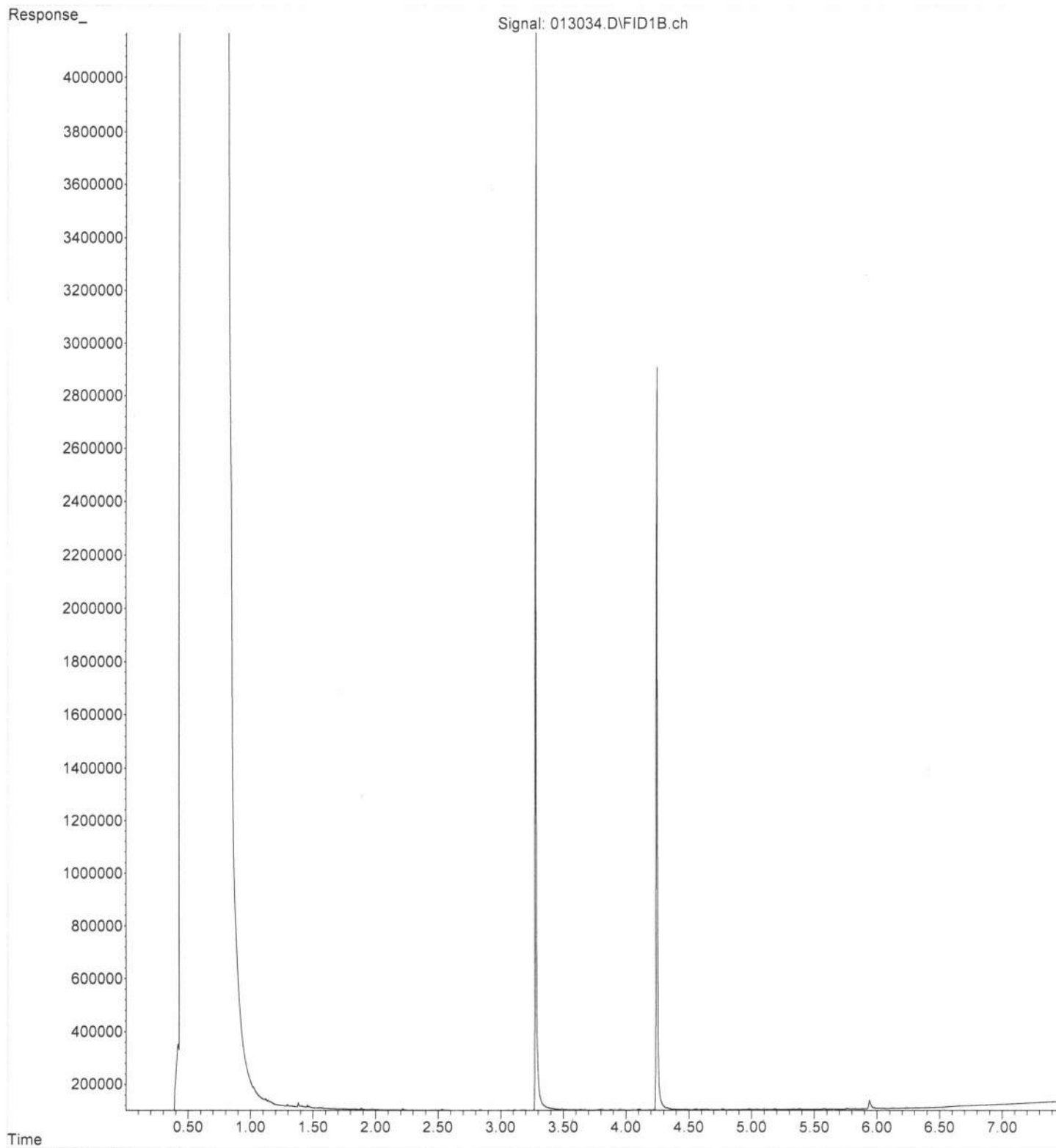
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Misc Info :
Vial Number: 23

ERR



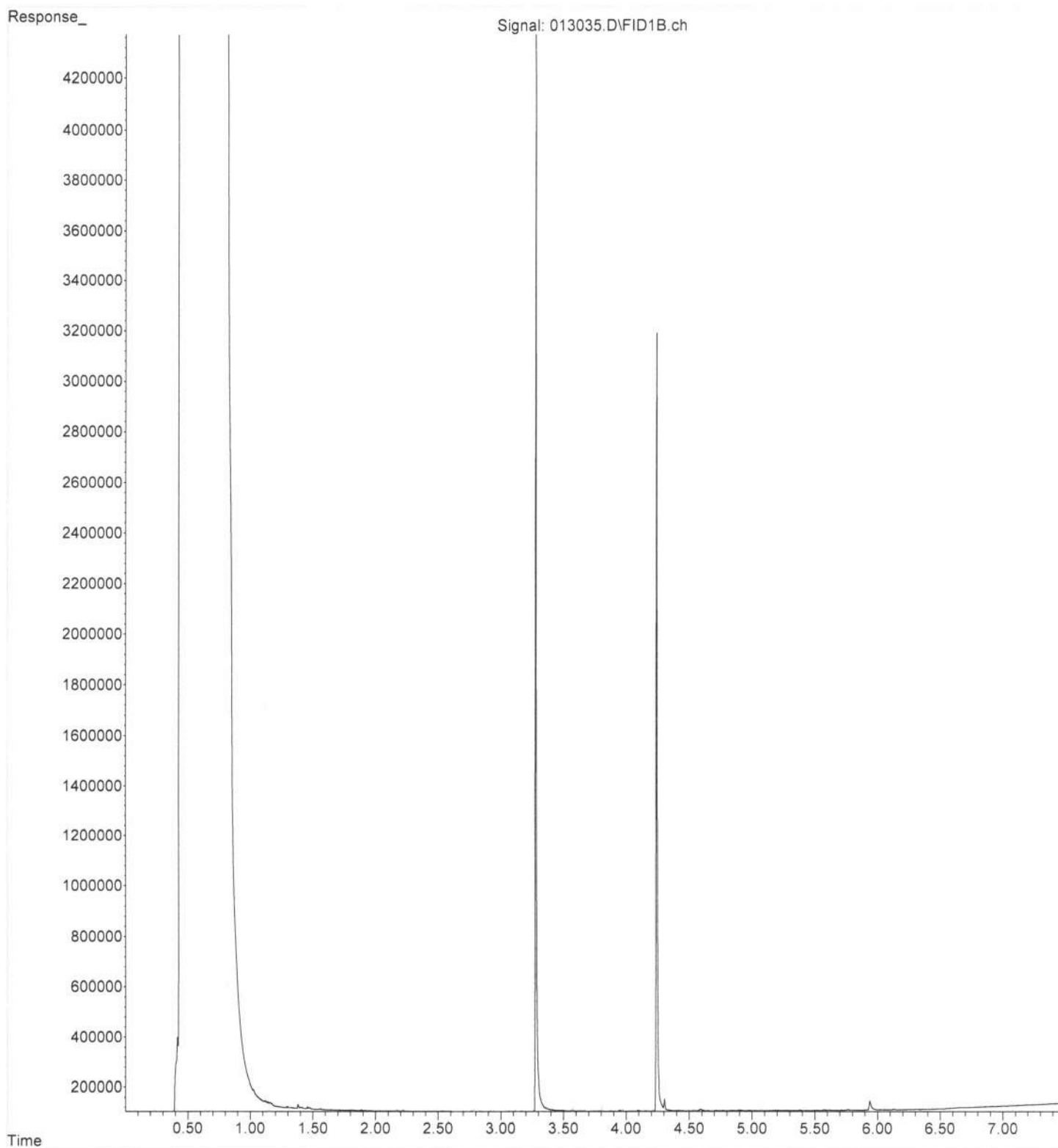
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Misc Info :
Vial Number: 24

ERR



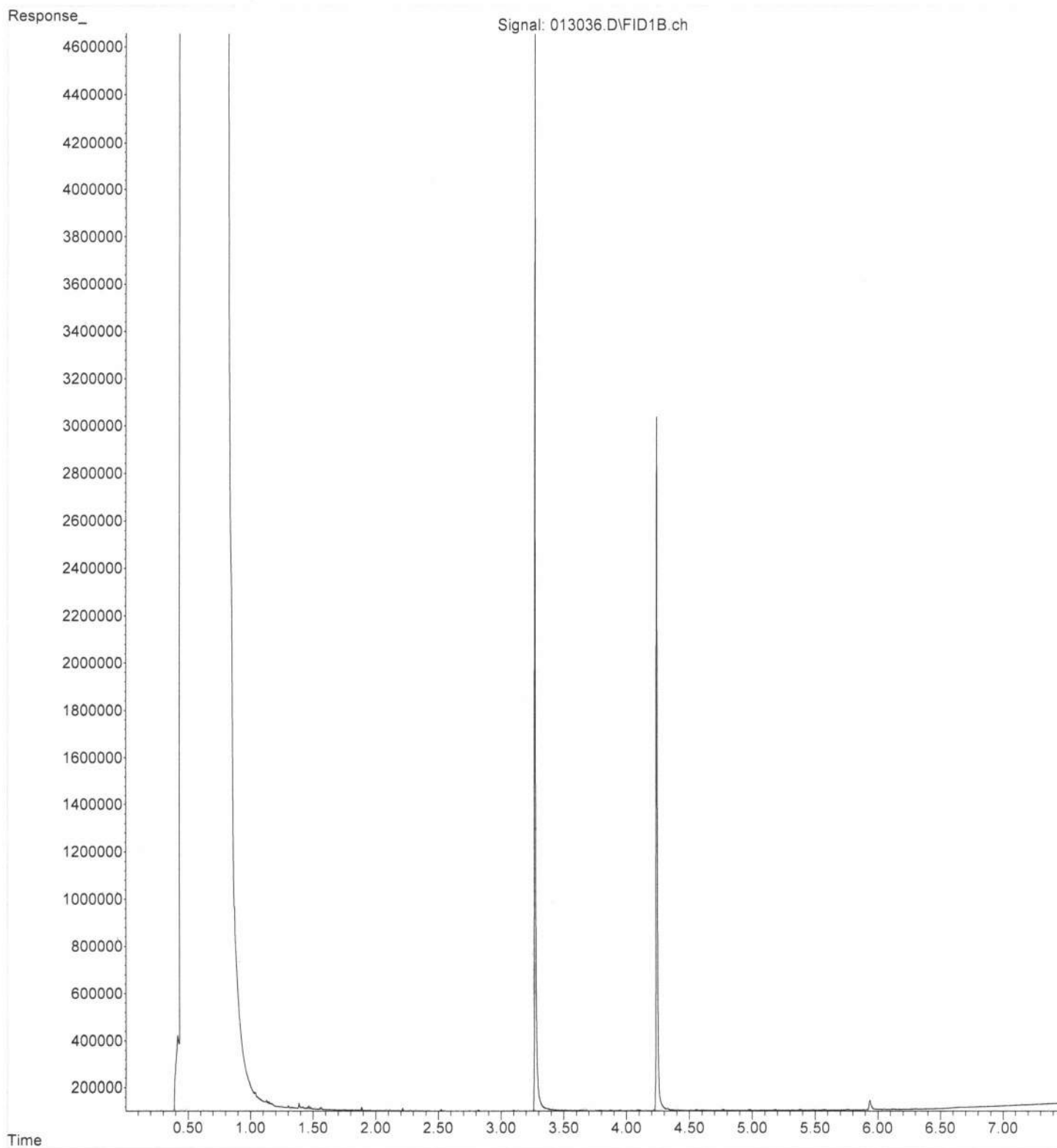
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ERR



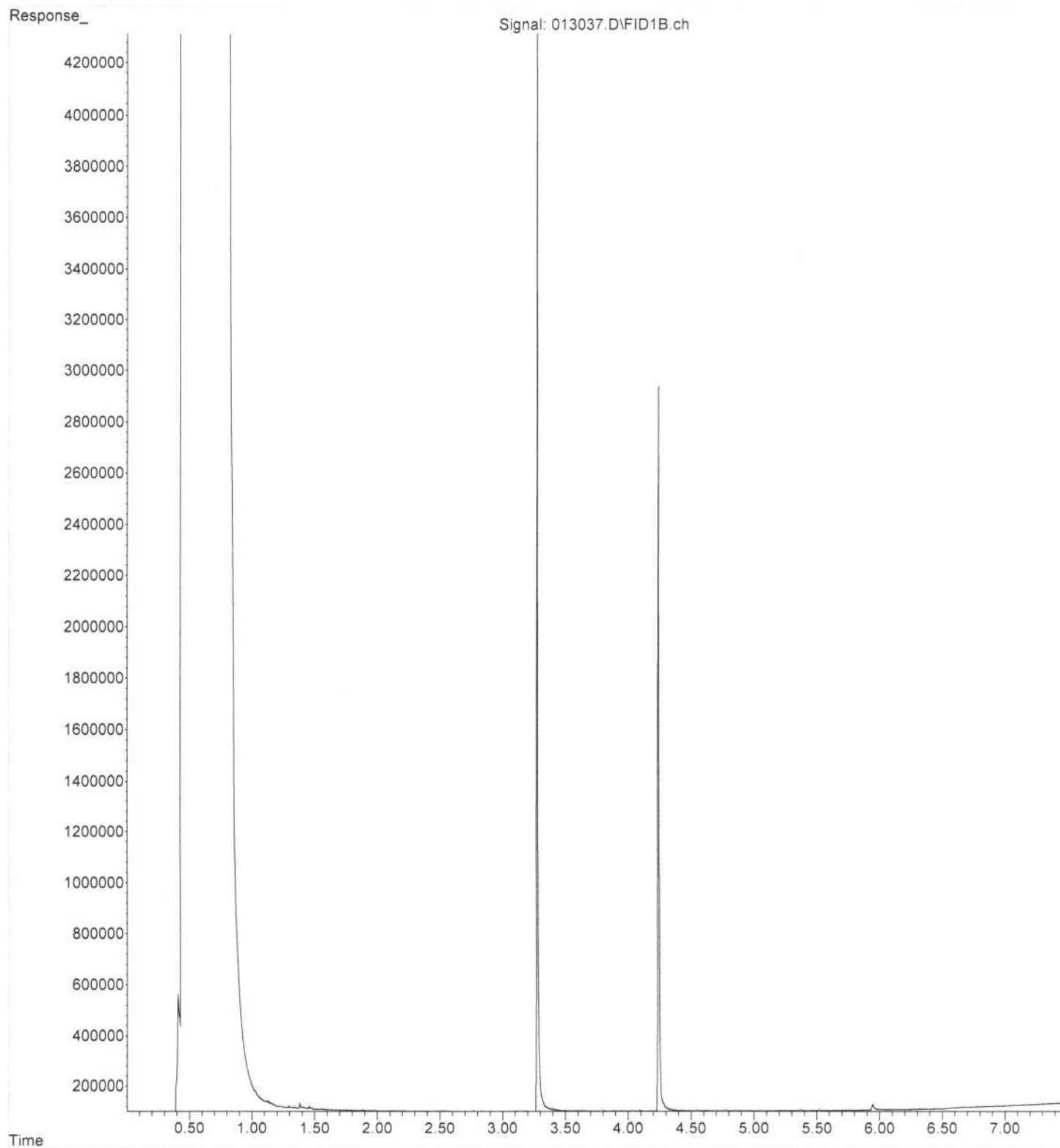
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ERR



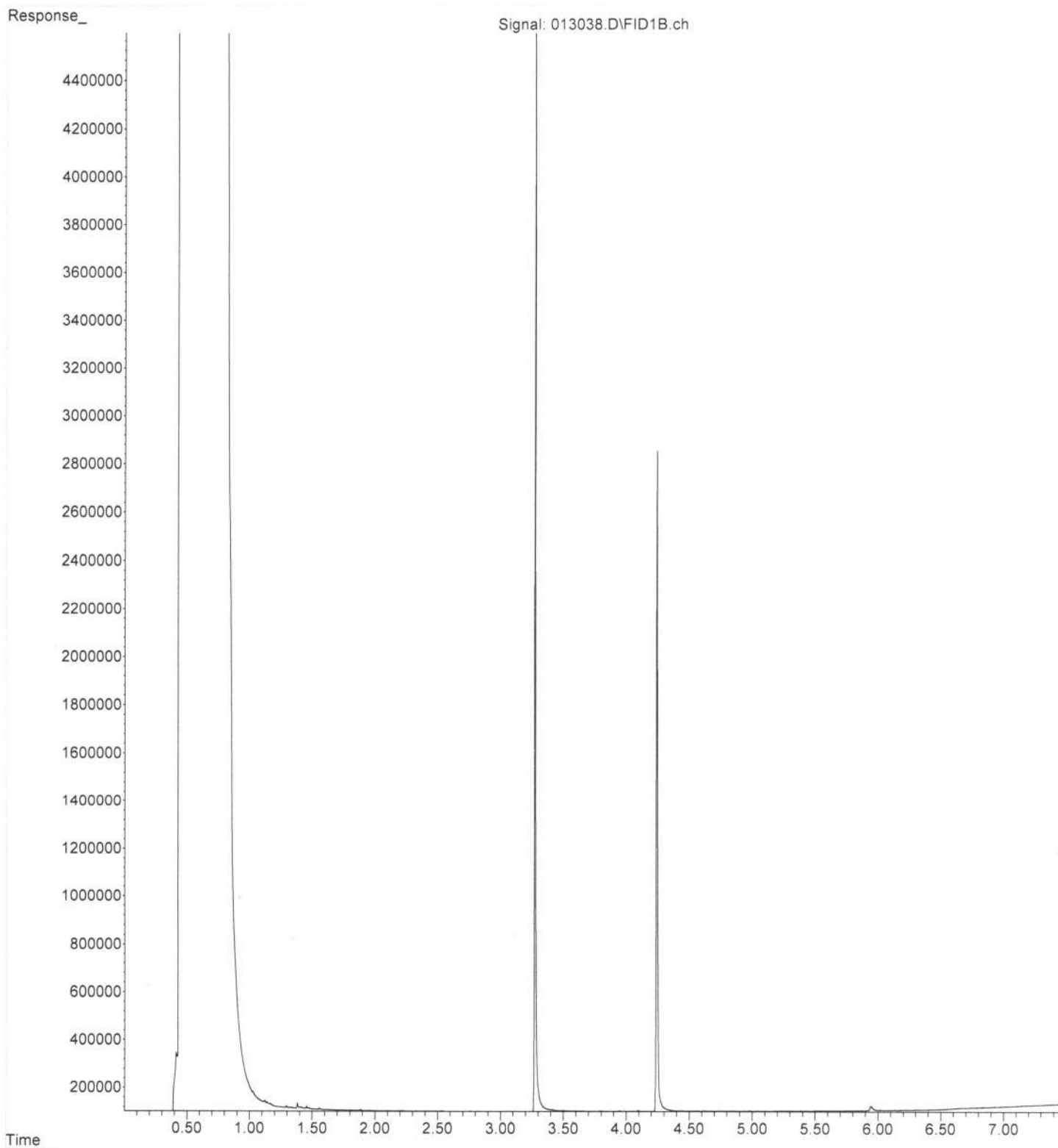
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Instrument : GC13
Sample Name: 401358-19
Misc Info :
Vial Number: 27

ERR



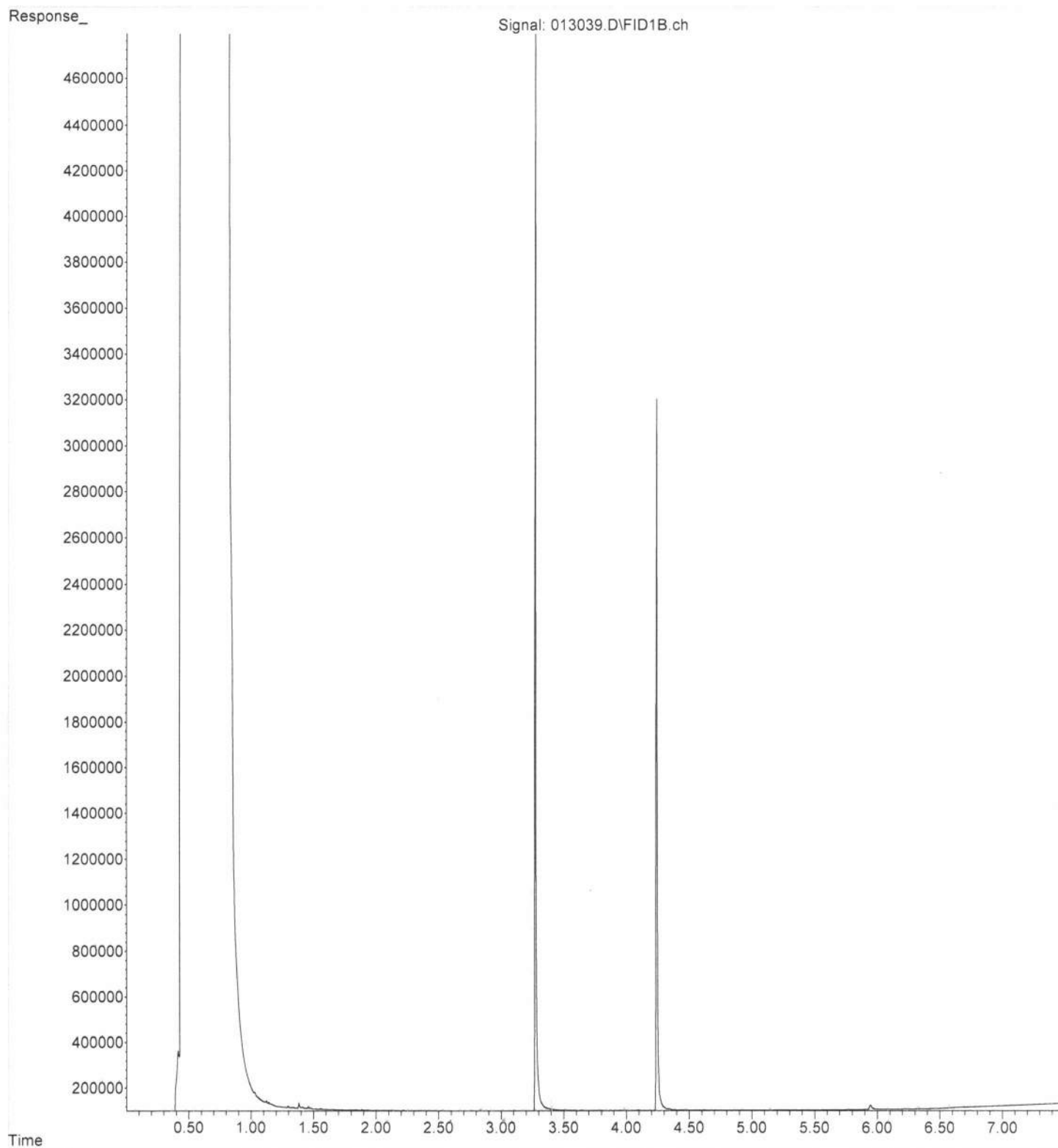
File :P:\Proc_GC13\01-30-24\013038.D
Operator : TL
Acquired : 30 Jan 2024 03:58 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-20
Misc Info :
Vial Number: 28

ERR



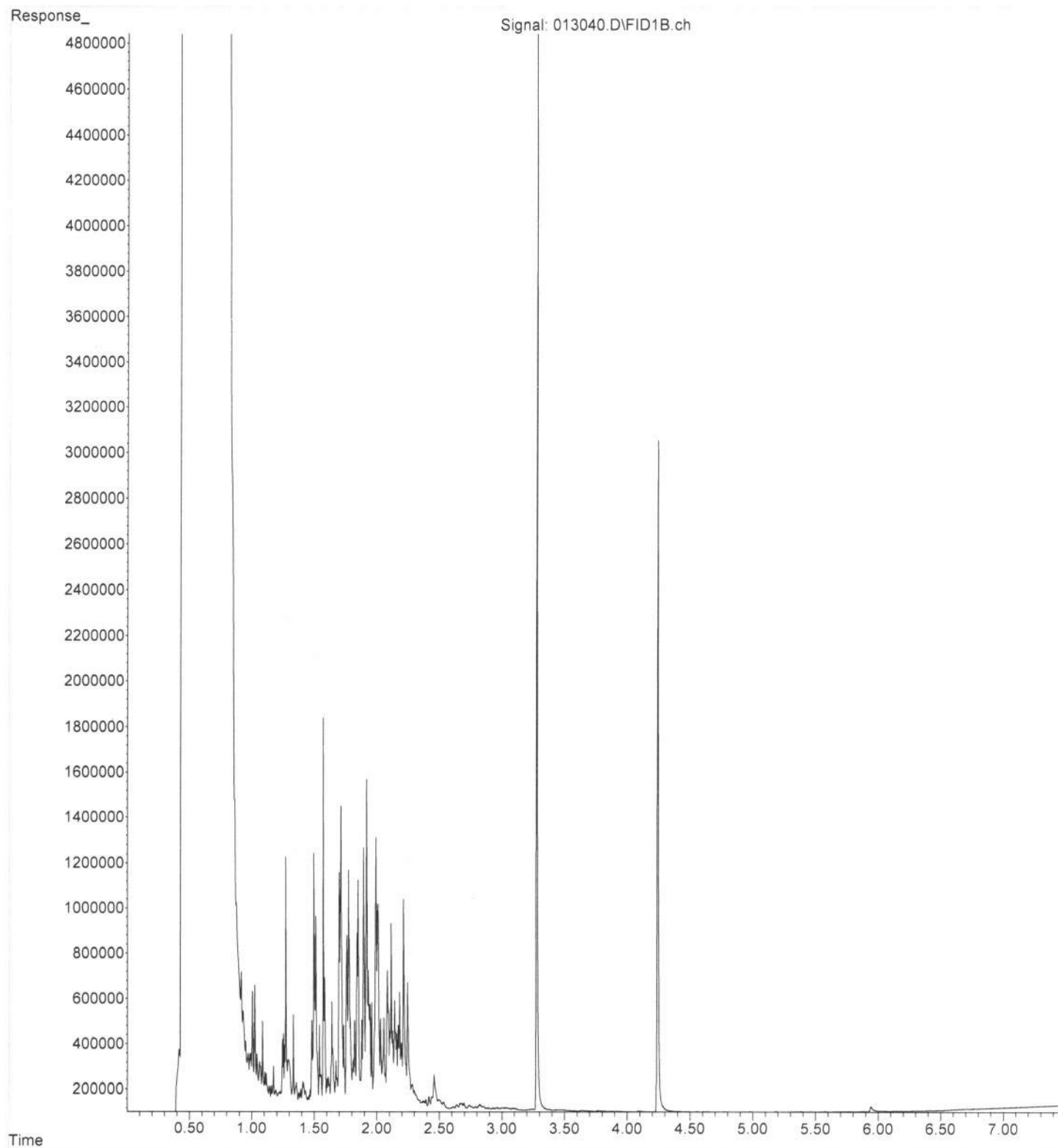
File : P:\Proc_GC13\01-30-24\013039.D
Operator : TL
Acquired : 30 Jan 2024 04:09 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-21
Misc Info :
Vial Number: 29

ERR



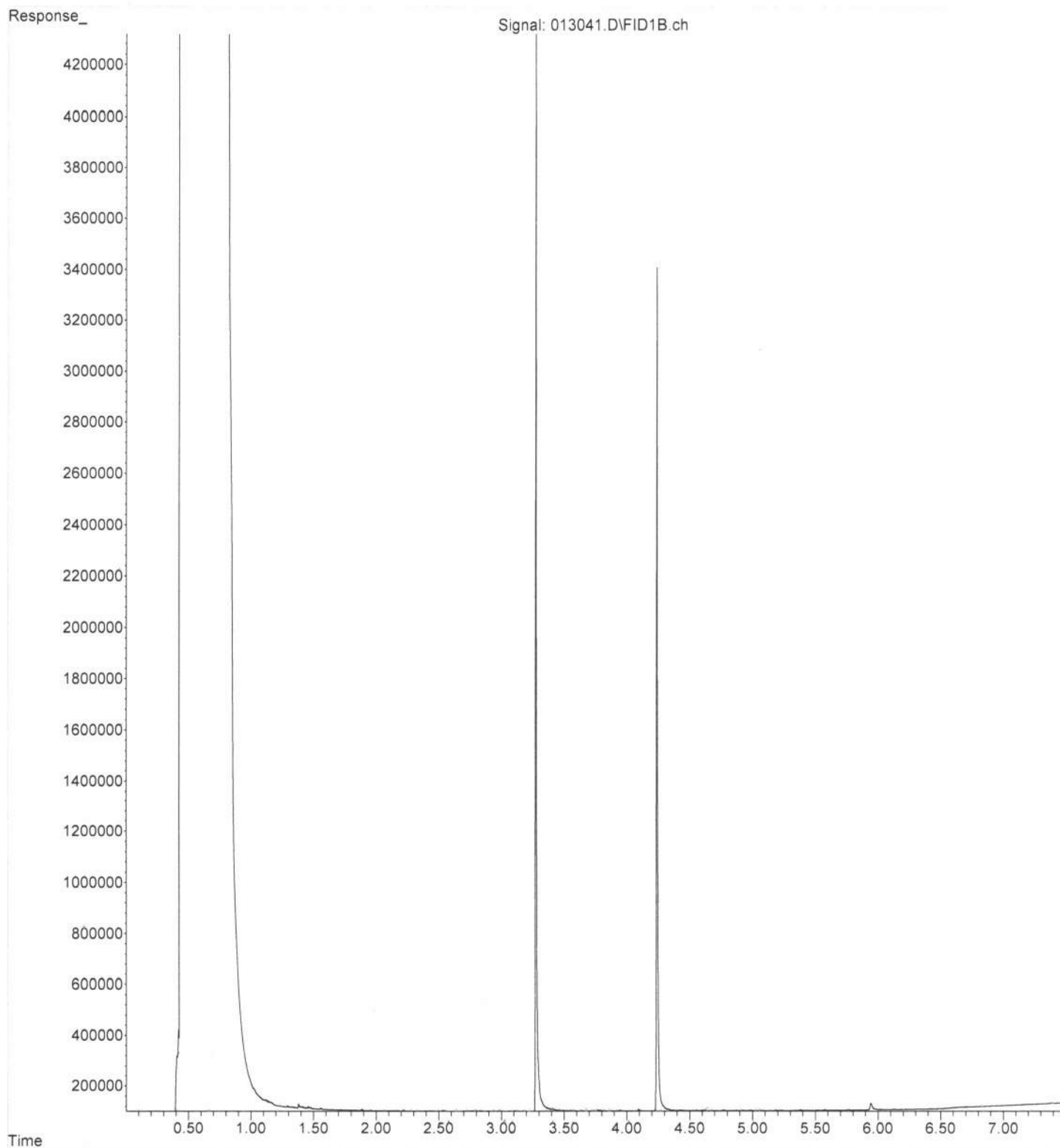
File : P:\Proc_GC13\01-30-24\013040.D
Operator : TL
Acquired : 30 Jan 2024 04:20 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-23
Misc Info :
Vial Number: 30

ERR



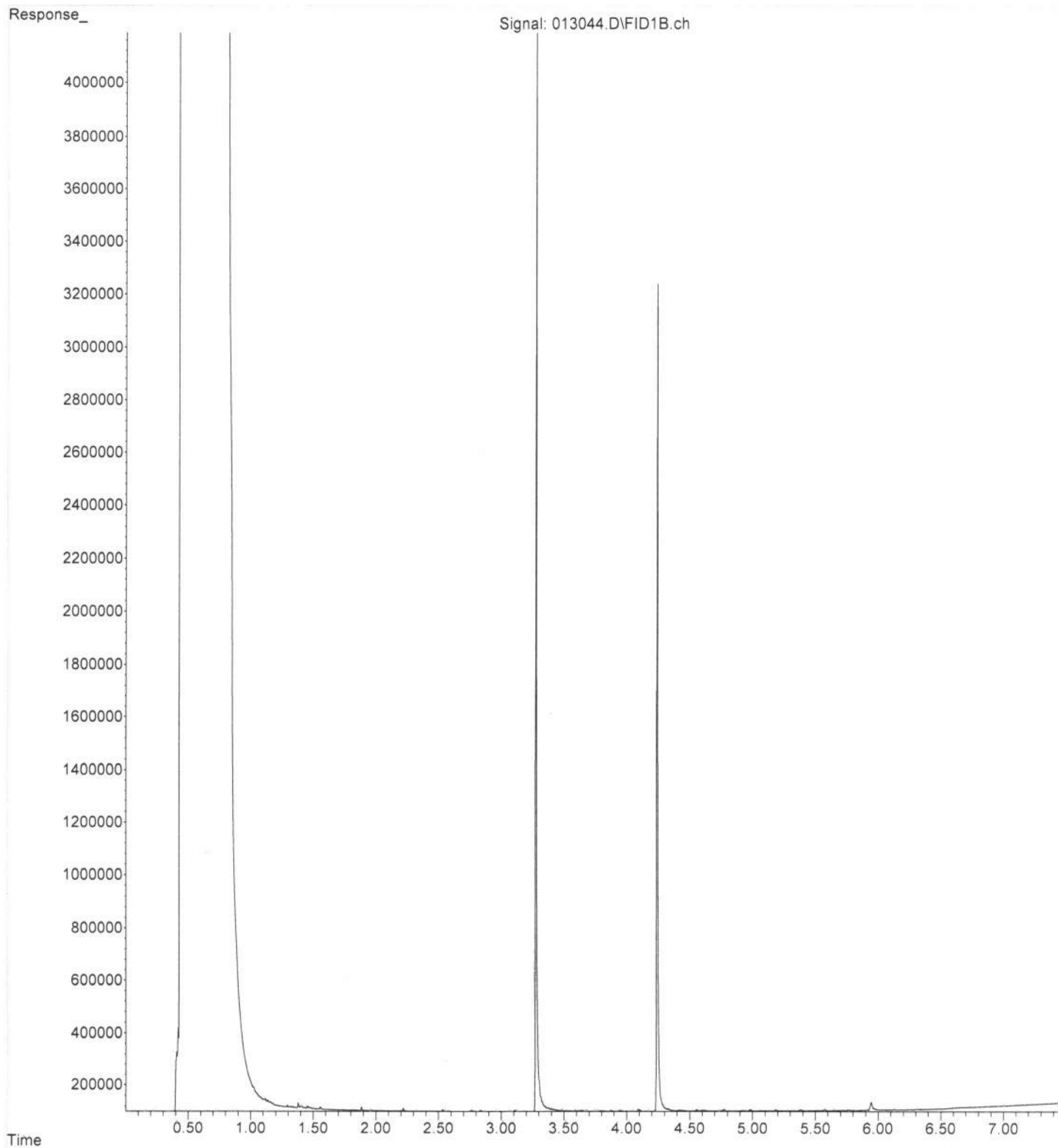
File : P:\Proc_GC13\01-30-24\013041.D
Operator : TL
Acquired : 30 Jan 2024 04:32 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-24
Misc Info :
Vial Number: 31

ERR



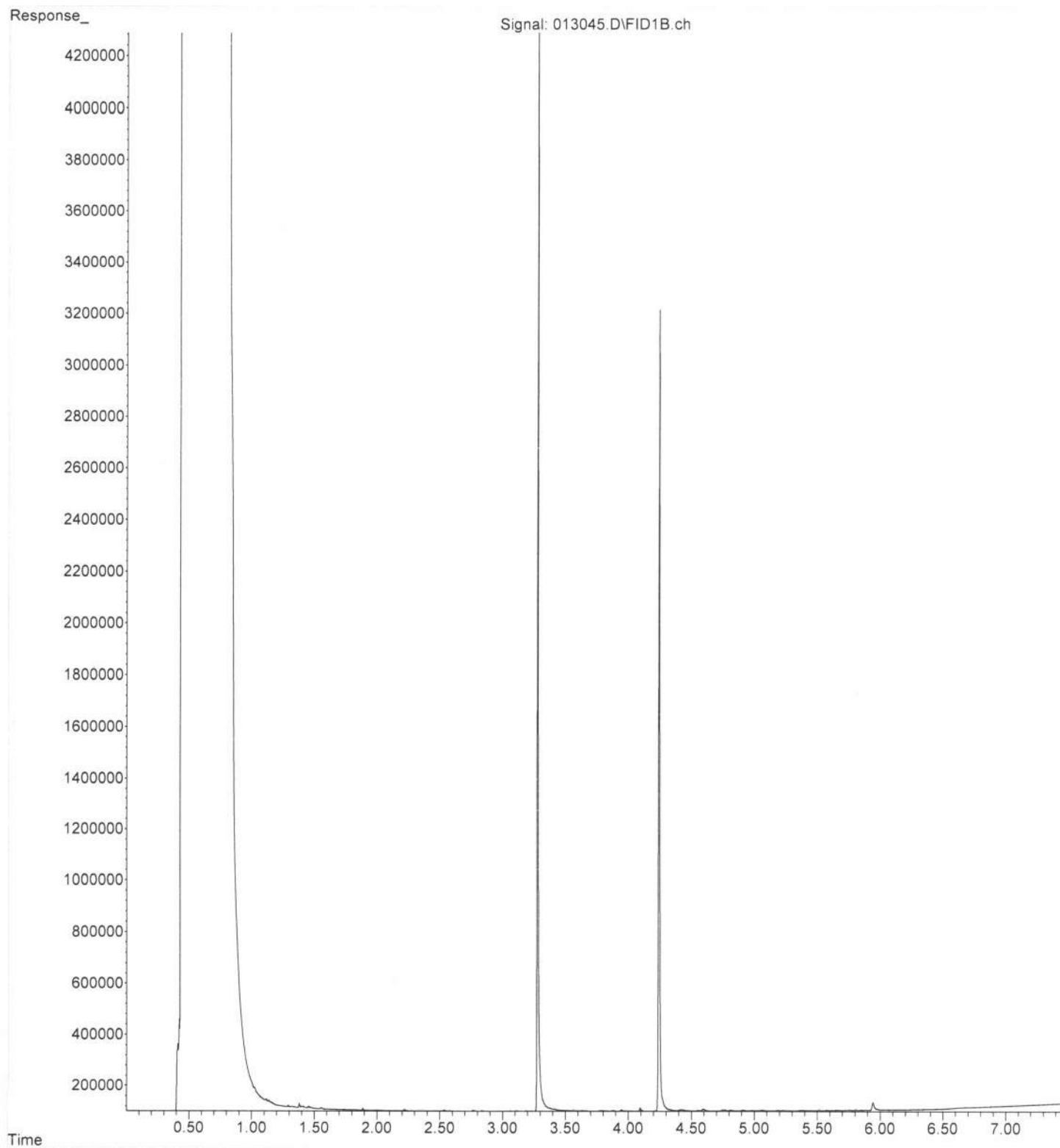
File :P:\Proc_GC13\01-30-24\013044.D
Operator : TL
Acquired : 30 Jan 2024 05:05 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-25
Misc Info :
Vial Number: 33

ERR



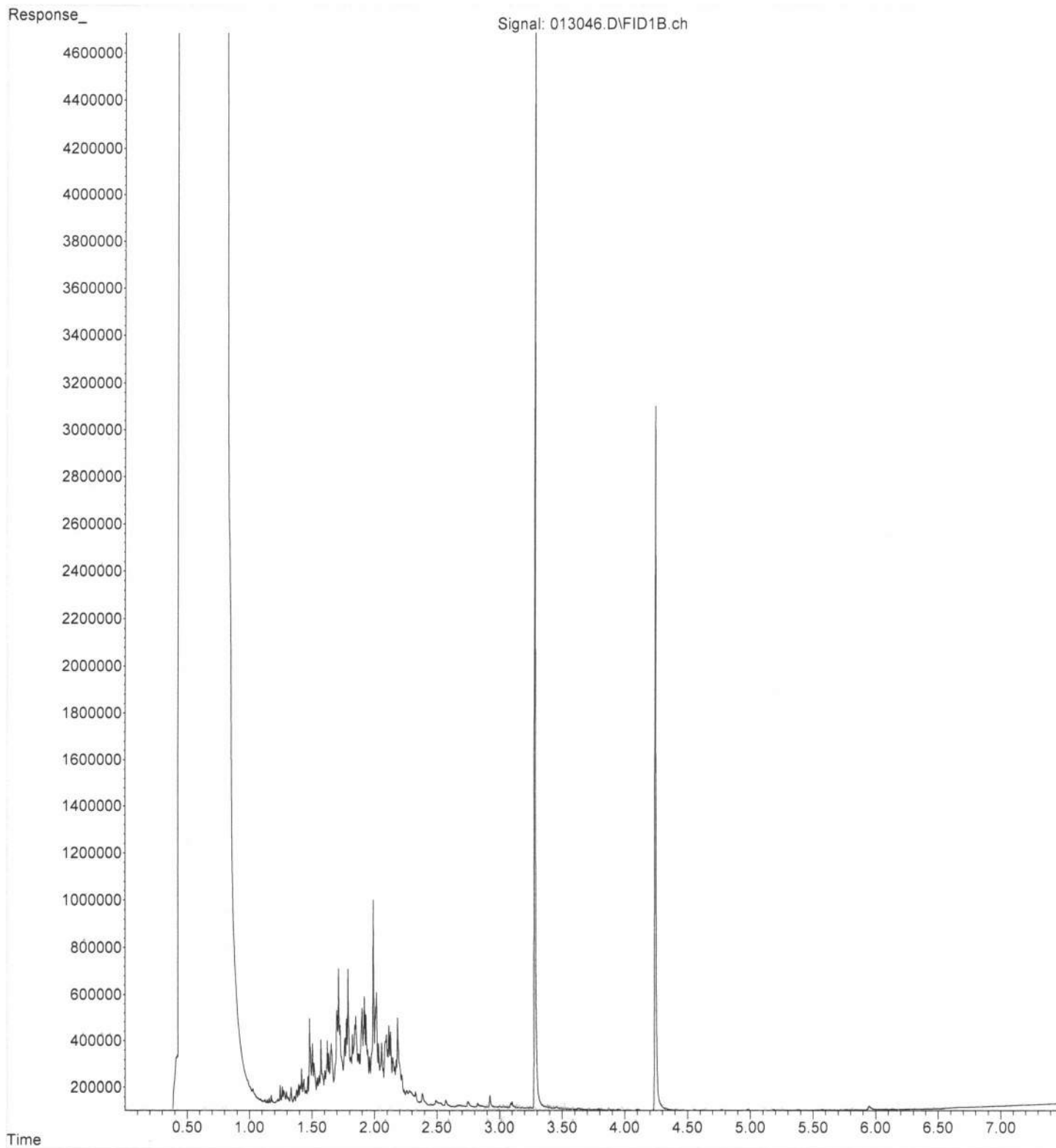
File :P:\Proc_GC13\01-30-24\013045.D
Operator : TL
Acquired : 30 Jan 2024 05:16 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-26
Misc Info :
Vial Number: 34

ERR



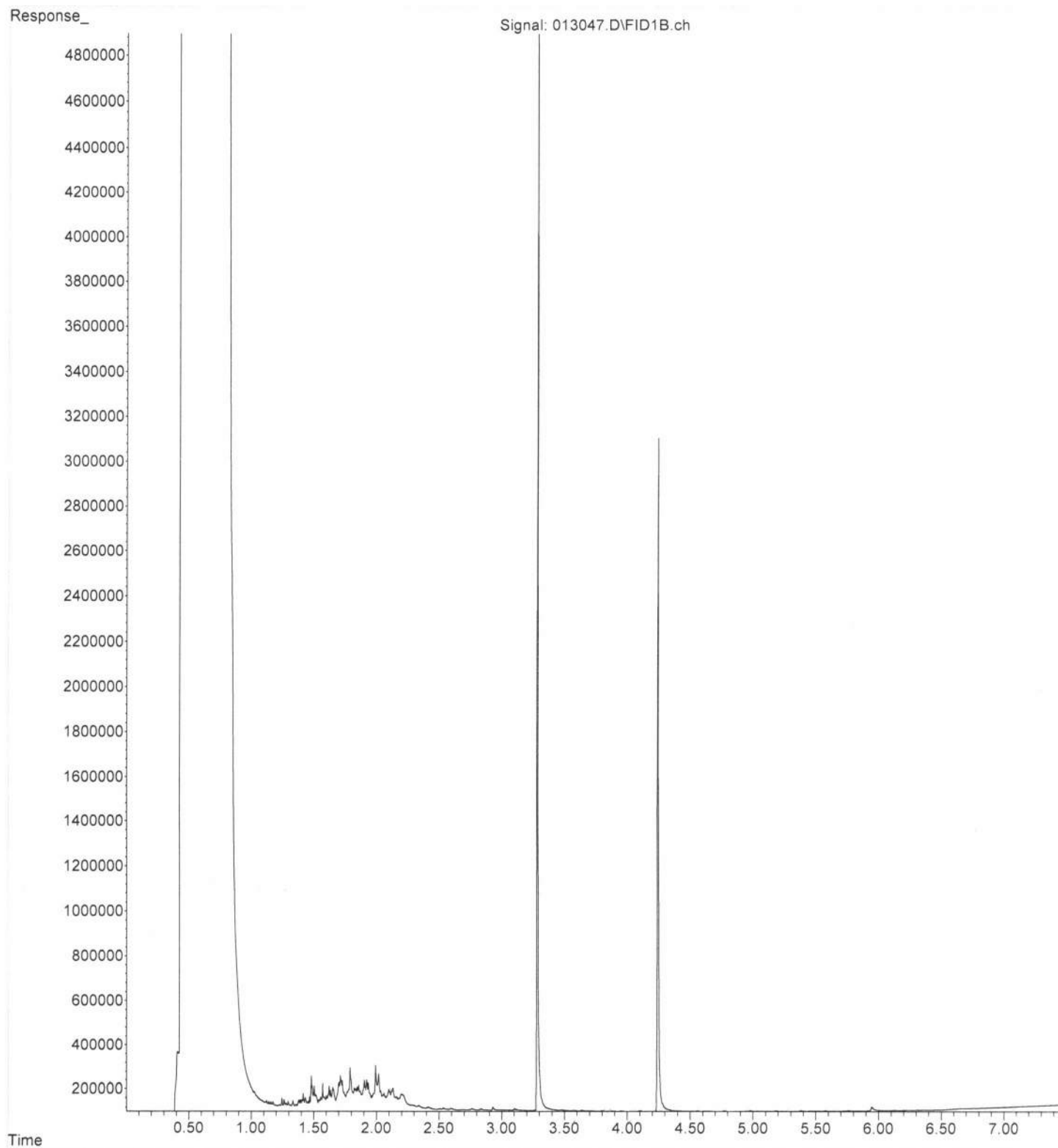
File : P:\Proc_GC13\01-30-24\013046.D
Operator : TL
Acquired : 30 Jan 2024 05:27 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-27
Misc Info :
Vial Number: 35

ERR



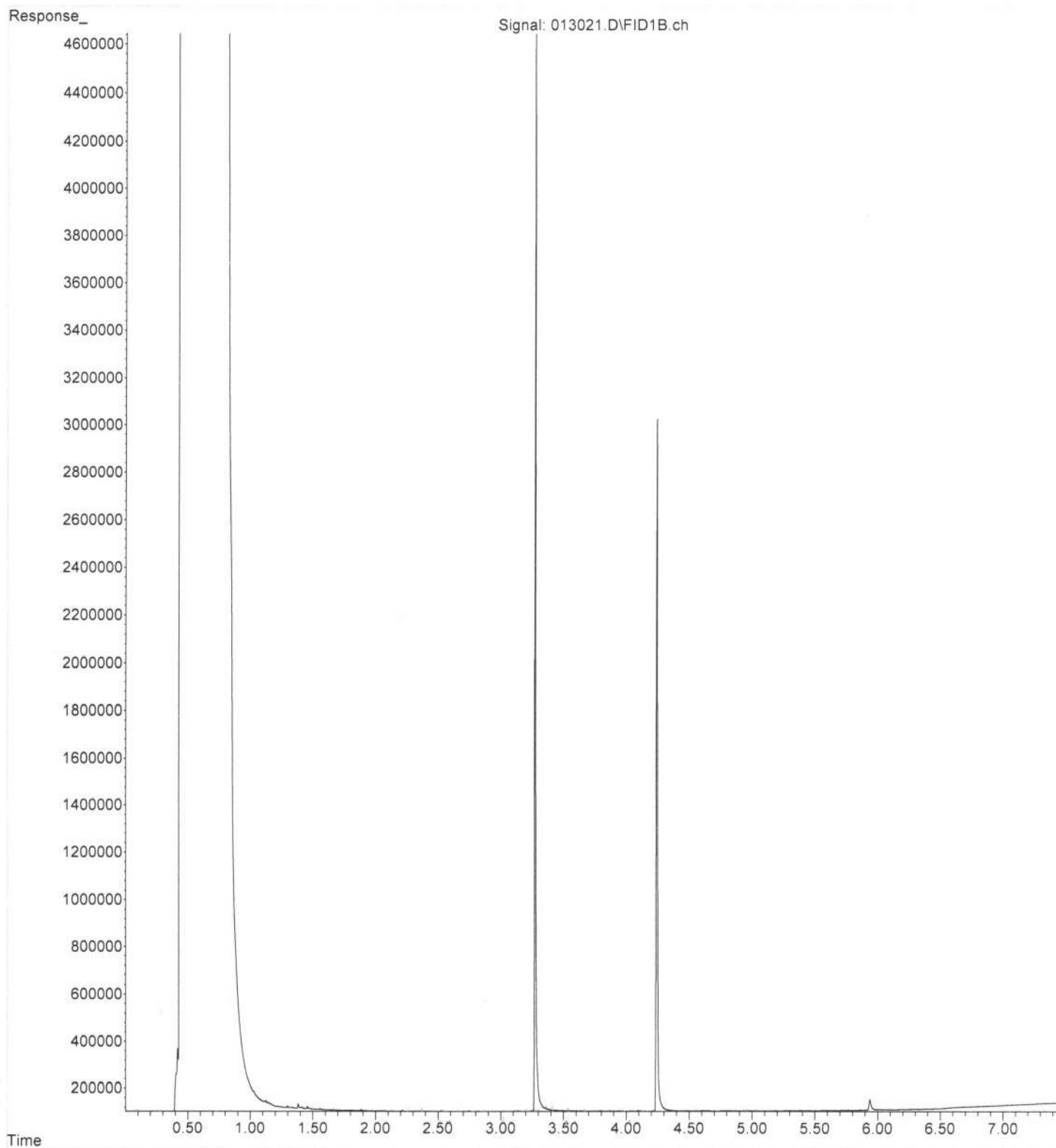
File :P:\Proc_GC13\01-30-24\013047.D
Operator : TL
Acquired : 30 Jan 2024 05:39 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 401358-28
Misc Info :
Vial Number: 36

ERR



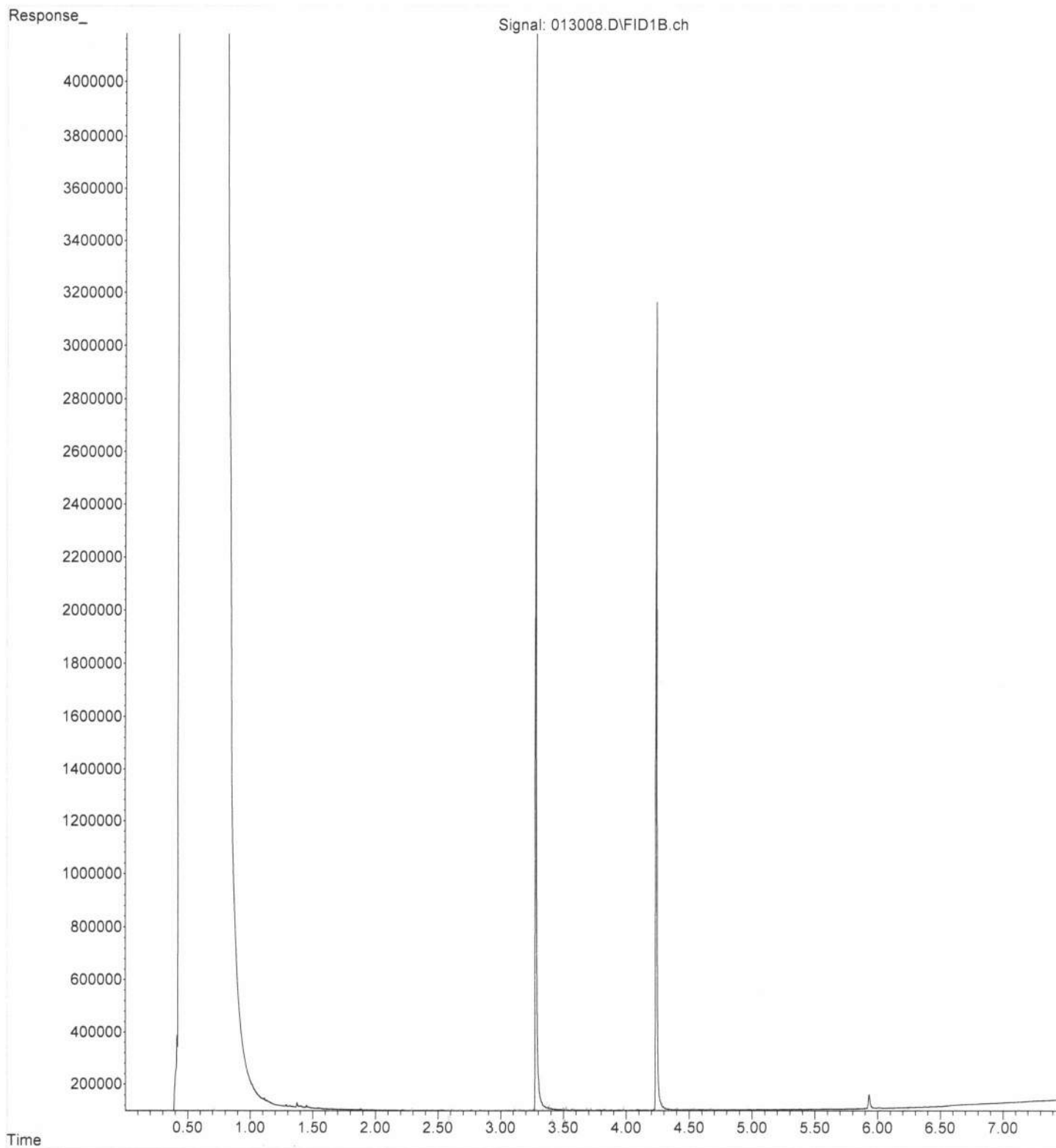
File : P:\Proc_GC13\01-30-24\013021.D
Operator : TL
Acquired : 30 Jan 2024 12:49 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-257 mb2
Misc Info :
Vial Number: 32

ERR



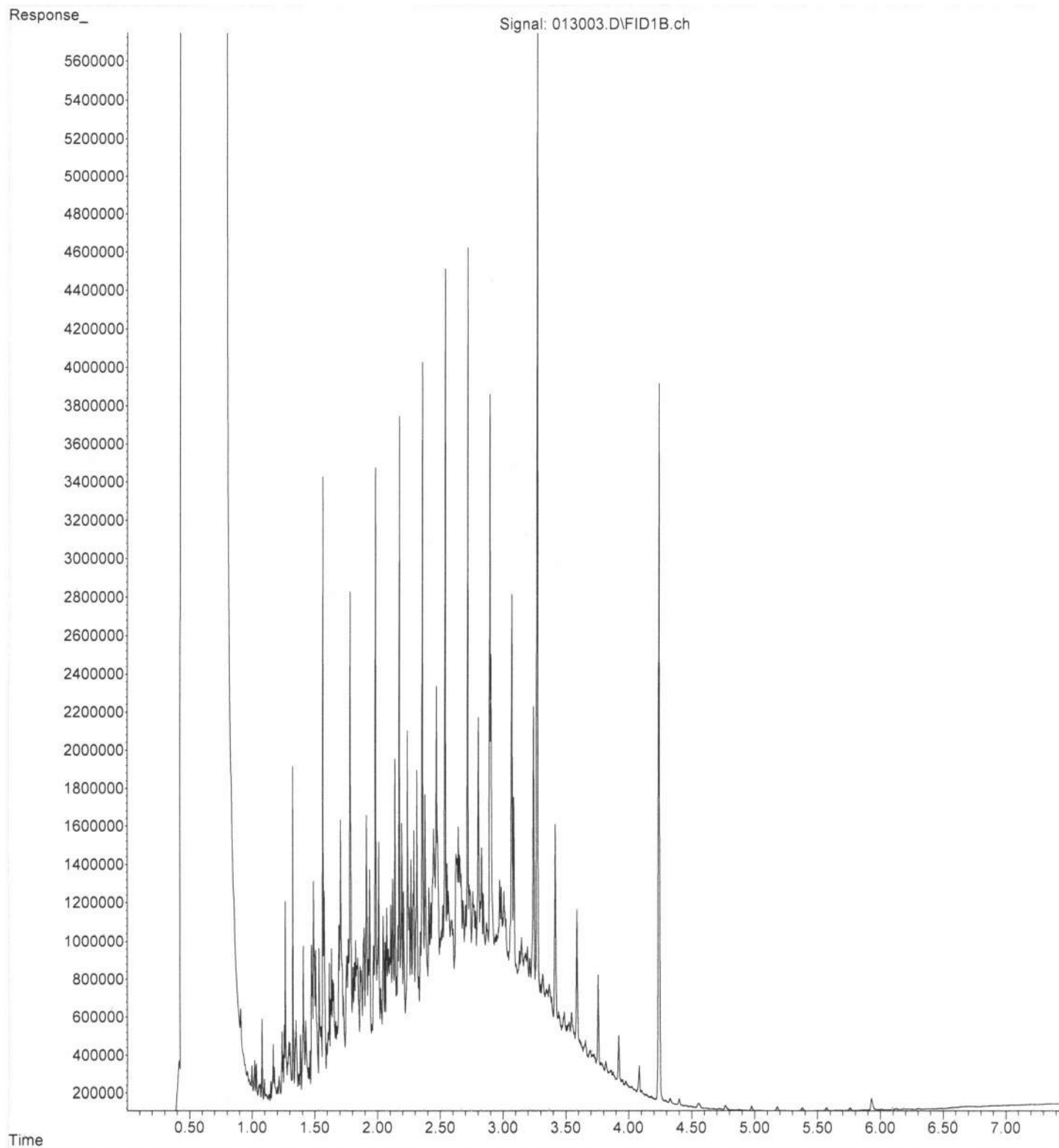
File :P:\Proc_GC13\01-30-24\013008.D
Operator : TL
Acquired : 30 Jan 2024 10:24 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 04-259 mb
Misc Info :
Vial Number: 9

ERR



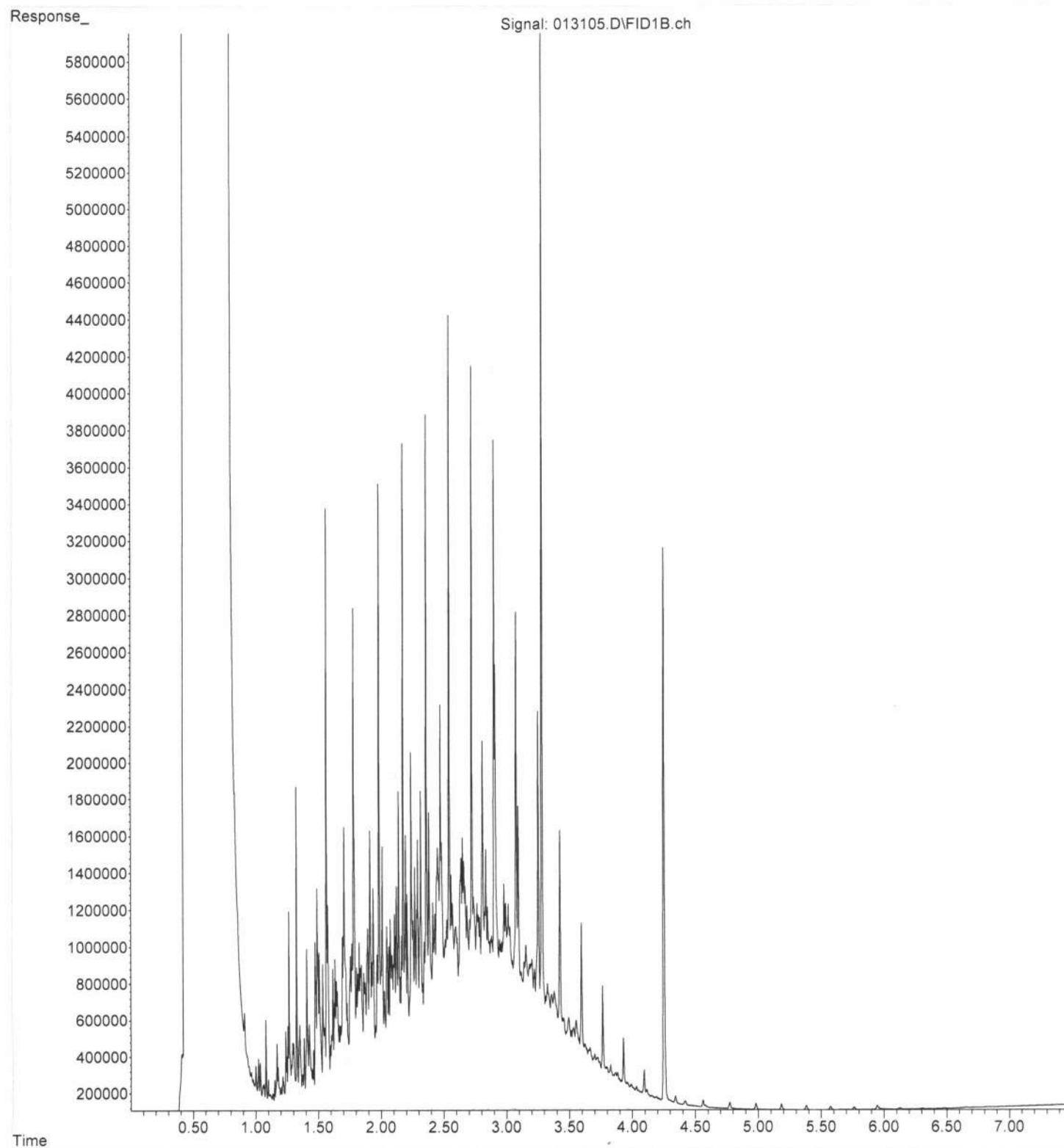
File :P:\Proc_GC13\01-30-24\013003.D
Operator : TL
Acquired : 30 Jan 2024 08:28 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR



File :P:\Proc_GC13\01-31-24\013105.D
Operator : TL
Acquired : 31 Jan 2024 08:44 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 70-26F
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401358
Work Order Number: 2402008

February 22, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 5 sample(s) on 2/1/2024 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401358
Work Order: 2402008

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402008-001 | HA-1-S6 | 01/26/2024 2:30 PM | 02/01/2024 9:30 AM |
| 2402008-002 | HA-1-DUP | 01/26/2024 3:00 PM | 02/01/2024 9:30 AM |
| 2402008-003 | HA-2-S7 | 01/25/2024 10:45 AM | 02/01/2024 9:30 AM |
| 2402008-004 | HA-3-S6 | 01/23/2024 4:40 PM | 02/01/2024 9:30 AM |
| 2402008-005 | MW-23D-S6 | 01/22/2024 3:10 PM | 02/01/2024 9:30 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 401358

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-001

Collection Date: 1/26/2024 2:30:00 PM

Client Sample ID: HA-1-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 22.7 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 22.7 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:12:44 PM |
| Surr: 1-Chlorooctadecane | 64.4 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:12:44 PM |
| Surr: o-Terphenyl | 80.6 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:12:44 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|---|-----------|----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 20.0 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 43.8 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C8-C10) | 101 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 57.9 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Aromatic Hydrocarbon (C12-C13) | 33.9 | 17.1 | D | mg/Kg-dry | 10 | 2/7/2024 4:20:00 AM |
| Surr: 2,5-dibromotoluene | 88.2 | 60 - 140 | D | %Rec | 10 | 2/7/2024 4:20:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 11.9 | 0.500 | | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|--|-----|---|---------------------|

CLIENT: Friedman & Bruya

Project: 401358

Lab ID: 2402008-002

Collection Date: 1/26/2024 3:00:00 PM

Client Sample ID: HA-1-DUP

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 22.6 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 22.6 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C16-C21) | 17.8 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:34:33 PM |
| Surr: 1-Chlorooctadecane | 63.9 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:34:33 PM |
| Surr: o-Terphenyl | 76.0 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:34:33 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|---|-----------|----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 123 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 278 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 469 | 93.9 | D | mg/Kg-dry | 50 | 2/7/2024 1:16:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,460 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 688 | 93.9 | D | mg/Kg-dry | 50 | 2/7/2024 1:16:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 215 | 18.8 | D | mg/Kg-dry | 10 | 2/7/2024 4:57:00 AM |
| Surr: 2,5-dibromotoluene | 110 | 60 - 140 | D | %Rec | 10 | 2/7/2024 4:57:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 11.7 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-003

Collection Date: 1/25/2024 10:45:00 AM

Client Sample ID: HA-2-S7

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | 117 | 22.5 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C10-C12) | 93.8 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C12-C16) | 53.6 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C8-C10) | 332 | 22.5 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C10-C12) | 344 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C12-C16) | 252 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C16-C21) | 46.9 | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.3 | H | mg/Kg-dry | 1 | 2/22/2024 12:56:23 PM |
| Surr: 1-Chlorooctadecane | 66.1 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:56:23 PM |
| Surr: o-Terphenyl | 77.8 | 50 - 150 | H | %Rec | 1 | 2/22/2024 12:56:23 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|---|-----------|-----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 114 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 498 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 304 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 456 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,760 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 695 | 183 | D | mg/Kg-dry | 100 | 2/7/2024 1:52:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 205 | 18.3 | D | mg/Kg-dry | 10 | 2/7/2024 5:33:00 AM |
| Surr: 2,5-dibromotoluene | 111 | 60 - 140 | D | %Rec | 10 | 2/7/2024 5:33:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | | |
|------------------|------|-------|--|-----|---|---------------------|
| Percent Moisture | 11.2 | 0.500 | | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|--|-----|---|---------------------|

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2402008-004

Collection Date: 1/23/2024 4:40:00 PM

Client Sample ID: HA-3-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C10-C12) | 18.9 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C12-C16) | 12.5 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C8-C10) | 27.4 | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C10-C12) | 60.7 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C12-C16) | 61.9 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C16-C21) | 22.0 | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 11.0 | H | mg/Kg-dry | 1 | 2/22/2024 1:18:23 PM |
| Surr: 1-Chlorooctadecane | 53.7 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:18:23 PM |
| Surr: o-Terphenyl | 82.3 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:18:23 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|-------|----------|----|-----------|-----|---------------------|
| Aliphatic Hydrocarbon (C5-C6) | 536 | 15.8 | DH | mg/Kg-dry | 10 | 2/7/2024 6:45:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 1,530 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aliphatic Hydrocarbon (C8-C10) | 553 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | 802 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 1,920 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C10-C12) | 1,120 | 158 | DH | mg/Kg-dry | 100 | 2/7/2024 2:28:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 276 | 15.8 | DH | mg/Kg-dry | 10 | 2/7/2024 6:45:00 AM |
| Surr: 2,5-dibromotoluene | 111 | 60 - 140 | DH | %Rec | 10 | 2/7/2024 6:45:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 8.81 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

CLIENT: Friedman & Bruya

Project: 401358

Lab ID: 2402008-005

Collection Date: 1/22/2024 3:10:00 PM

Client Sample ID: MW-23D-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 42943

Analyst: AP

| | | | | | | |
|---------------------------------|------|----------|---|-----------|---|----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C10-C12) | 28.5 | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C12-C16) | 21.3 | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 21.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.9 | H | mg/Kg-dry | 1 | 2/22/2024 1:40:09 PM |
| Surr: 1-Chlorooctadecane | 63.7 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:40:09 PM |
| Surr: o-Terphenyl | 79.0 | 50 - 150 | H | %Rec | 1 | 2/22/2024 1:40:09 PM |

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 42804

Analyst: MS

| | | | | | | |
|---------------------------------|------|----------|----|-----------|-----|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | 10.7 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C6-C8) | 11.2 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C8-C10) | 67.1 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aliphatic Hydrocarbon (C10-C12) | 170 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Aromatic Hydrocarbon (C8-C10) | 111 | 1.67 | H | mg/Kg-dry | 1 | 2/7/2024 3:44:00 AM |
| Aromatic Hydrocarbon (C10-C12) | 250 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Aromatic Hydrocarbon (C12-C13) | 64 | 167 | DH | mg/Kg-dry | 100 | 2/7/2024 12:40:00 PM |
| Surr: 2,5-dibromotoluene | 125 | 60 - 140 | H | %Rec | 1 | 2/7/2024 3:44:00 AM |

Sample Moisture (Percent Moisture)

Batch ID: R89374

Analyst: BS

| | | | | | |
|------------------|------|-------|-----|---|---------------------|
| Percent Moisture | 8.51 | 0.500 | wt% | 1 | 2/2/2024 9:30:30 AM |
|------------------|------|-------|-----|---|---------------------|

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42943 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89774 | | |
| Client ID: MBLKS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873777 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 68.7 | | 100.0 | | 68.7 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42943 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89775 | | |
| Client ID: MBLKS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873787 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 20.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 10.0 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 10.0 | | | | | | | | | |
| Surr: o-Terphenyl | 74.1 | | 100.0 | | 74.1 | 50 | 150 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42943 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 2/15/2024 | | | RunNo: 89774 | | |
| Client ID: LCSS | Batch ID: 42943 | | | | | Analysis Date: 2/22/2024 | | | SeqNo: 1873778 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 99.5 | 20.0 | 250.0 | 0 | 39.8 | 15.9 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 69.3 | 10.0 | 125.0 | 0 | 55.4 | 30.4 | 115 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 72.9 | 10.0 | 125.0 | 0 | 58.3 | 39.8 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 78.2 | 10.0 | 125.0 | 0 | 62.6 | 50.3 | 123 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 79.2 | 10.0 | 125.0 | 0 | 63.4 | 36.6 | 144 | | | | |
| Surr: 1-Chlorooctadecane | 66.3 | | 100.0 | | 66.3 | 50 | 150 | | | | |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID: LCS-42943 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/15/2024 | | RunNo: 89775 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 42943 | | | | Analysis Date: 2/22/2024 | | SeqNo: 1873788 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 120 | 20.0 | 250.0 | 0 | 47.9 | 18.6 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 82.4 | 10.0 | 125.0 | 0 | 65.9 | 42.7 | 105 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 92.5 | 10.0 | 125.0 | 0 | 74.0 | 43.6 | 124 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 89.6 | 10.0 | 125.0 | 0 | 71.7 | 49.5 | 124 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 81.2 | 10.0 | 125.0 | 0 | 65.0 | 54.8 | 124 | | | | |
| Surr: o-Terphenyl | 66.6 | | 100.0 | | 66.6 | 50 | 150 | | | | |

| Sample ID: LCSD-42943 | | SampType: LCSD | | Units: mg/Kg | | Prep Date: 2/15/2024 | | RunNo: 89774 | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: LCSS02 | | Batch ID: 42943 | | | | Analysis Date: 2/22/2024 | | SeqNo: 1873779 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 94.4 | 20.0 | 250.0 | 0 | 37.8 | 15.9 | 130 | 99.53 | 5.24 | 20 | |
| Aliphatic Hydrocarbon (C10-C12) | 68.9 | 10.0 | 125.0 | 0 | 55.1 | 30.4 | 115 | 69.28 | 0.565 | 20 | |
| Aliphatic Hydrocarbon (C12-C16) | 77.0 | 10.0 | 125.0 | 0 | 61.6 | 39.8 | 130 | 72.92 | 5.43 | 20 | |
| Aliphatic Hydrocarbon (C16-C21) | 81.2 | 10.0 | 125.0 | 0 | 64.9 | 50.3 | 123 | 78.21 | 3.71 | 20 | |
| Aliphatic Hydrocarbon (C21-C34) | 85.4 | 10.0 | 125.0 | 0 | 68.3 | 36.6 | 144 | 79.24 | 7.49 | 20 | |
| Surr: 1-Chlorooctadecane | 66.7 | | 100.0 | | 66.7 | 50 | 150 | | 0 | | |

| Sample ID: LCSD-42943 | | SampType: LCSD | | Units: mg/Kg | | Prep Date: 2/15/2024 | | RunNo: 89775 | | | |
|--------------------------------|--------|------------------------|-----------|---------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS02 | | Batch ID: 42943 | | | | Analysis Date: 2/22/2024 | | SeqNo: 1873789 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 118 | 20.0 | 250.0 | 0 | 47.1 | 18.6 | 130 | 119.9 | 1.81 | 20 | |
| Aromatic Hydrocarbon (C10-C12) | 83.5 | 10.0 | 125.0 | 0 | 66.8 | 42.7 | 105 | 82.42 | 1.29 | 20 | |
| Aromatic Hydrocarbon (C12-C16) | 98.3 | 10.0 | 125.0 | 0 | 78.6 | 43.6 | 124 | 92.52 | 6.06 | 20 | |
| Aromatic Hydrocarbon (C16-C21) | 96.0 | 10.0 | 125.0 | 0 | 76.8 | 49.5 | 124 | 89.59 | 6.88 | 20 | |
| Aromatic Hydrocarbon (C21-C34) | 79.6 | 10.0 | 125.0 | 0 | 63.7 | 54.8 | 124 | 81.21 | 1.99 | 20 | |
| Surr: o-Terphenyl | 68.2 | | 100.0 | | 68.2 | 50 | 150 | | 0 | | |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| | | | | | | | | | | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-42804 | | SampType: LCS | | Units: mg/Kg | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
| Client ID: LCSS | | Batch ID: 42804 | | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868715 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 19.6 | 2.50 | 20.00 | 0 | 98.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 8.87 | 2.50 | 10.00 | 0 | 88.7 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 10.3 | 2.50 | 10.00 | 0 | 103 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 48.7 | 2.50 | 50.00 | 0 | 97.5 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 9.91 | 2.50 | 10.00 | 0 | 99.1 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 10.4 | 2.50 | 10.00 | 0 | 104 | 70 | 130 | | | | |
| Surr: 2,5-dibromotoluene | 2.41 | | 2.500 | | 96.3 | 60 | 140 | | | | |

| Sample ID: MB-42804 | | SampType: MBLK | | Units: mg/Kg | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
|---------------------------------|--------|------------------------|-----------|---------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Client ID: MBLKS | | Batch ID: 42804 | | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868698 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.50 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.50 | | 0 | 0 | | | | | | |
| Surr: 2,5-dibromotoluene | 2.37 | | 2.500 | | 95.0 | 60 | 140 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | | RunNo: 89510 | | |
| Client ID: HA-2-S7 | | Batch ID: 42804 | | | | | Analysis Date: 2/7/2024 | | | SeqNo: 1868703 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 104 | 18.3 | | 0 | 0 | | | 113.7 | 8.57 | 25 | D |
| Aliphatic Hydrocarbon (C6-C8) | 499 | 18.3 | | 0 | 0 | | | 498.5 | 0.0812 | 25 | D |
| Aliphatic Hydrocarbon (C8-C10) | 419 | 18.3 | | 0 | 0 | | | 395.4 | 5.80 | 25 | DE |
| Aliphatic Hydrocarbon (C10-C12) | 525 | 18.3 | | 0 | 0 | | | 505.0 | 3.86 | 25 | DE |
| Aromatic Hydrocarbon (C8-C10) | 1,810 | 18.3 | | 0 | 0 | | | 1,757 | 3.17 | 25 | D |

Work Order: 2402008
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID: 2402008-003BDUP | | SampType: DUP | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|-----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: HA-2-S7 | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868703 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C10-C12) | 608 | 18.3 | | 0 | 0 | | | 596.1 | 1.91 | 25 | DE |
| Aromatic Hydrocarbon (C12-C13) | 208 | 18.3 | | 0 | 0 | | | 204.9 | 1.53 | 25 | D |
| Surr: 2,5-dibromotoluene | 19.0 | | 18.30 | | 104 | 60 | 140 | | 0 | 0 | D |

| Sample ID: 2402008-005BMS | | SampType: MS | | Units: mg/Kg-dry | | Prep Date: 2/6/2024 | | RunNo: 89510 | | | |
|----------------------------------|--------|------------------------|-----------|-------------------------|------|--------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: MW-23D-S6 | | Batch ID: 42804 | | | | Analysis Date: 2/7/2024 | | SeqNo: 1868705 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 24.0 | 1.67 | 13.35 | 10.72 | 99.7 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C6-C8) | 18.6 | 1.67 | 6.673 | 11.16 | 111 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C8-C10) | 73.0 | 1.67 | 6.673 | 67.05 | 89.0 | 70 | 130 | | | | H |
| Aliphatic Hydrocarbon (C10-C12) | 152 | 1.67 | 6.673 | 148.0 | 63.0 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C8-C10) | 143 | 1.67 | 33.36 | 111.3 | 95.5 | 70 | 130 | | | | H |
| Aromatic Hydrocarbon (C10-C12) | 141 | 1.67 | 6.673 | 139.7 | 15.6 | 70 | 130 | | | | SH |
| Aromatic Hydrocarbon (C12-C13) | 74.3 | 1.67 | 6.673 | 69.70 | 68.8 | 70 | 130 | | | | SH |
| Surr: 2,5-dibromotoluene | 1.82 | | 1.668 | | 109 | 60 | 140 | | | | H |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample Log-In Check List

Client Name: FB
 Logged by: Morgan Wilson

Work Order Number: 2402008
 Date Received: 2/1/2024 9:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 0.6 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2402 008

Send Report To Michael Erdahl

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108Phone # (206) 283-8282, merahni@riedmanandfrya.com

| | |
|--------------------------------|-------------------|
| SUBCONTRACTOR Fremont | |
| PROJECT NAME/NO. 401358 | PO # D-655 |
| REMARKS EIM and EQuIS4 | |

TURNAROUND TIME

☒ Standard TAT

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

[illegible]



Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|--------|------|
|  | Michael Erdahl | Friedman & Bruya | 2/1/24 | 0845 |
| Received by:  | Nathan Waples | FAT | 2/1/24 | 430 |
| Relinquished by: | | | | |
| Received by: | | | | |



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 401358
Work Order Number: 2401541

February 06, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 10 sample(s) on 1/30/2024 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 401358
Work Order: 2401541

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2401541-001 | HA-1-S2 | 01/26/2024 9:35 AM | 01/30/2024 12:10 PM |
| 2401541-002 | HA-1-S4 | 01/26/2024 10:55 AM | 01/30/2024 12:10 PM |
| 2401541-003 | HA-1-S6 | 01/26/2024 2:30 PM | 01/30/2024 12:10 PM |
| 2401541-004 | HA-1-Dup | 01/26/2024 3:00 PM | 01/30/2024 12:10 PM |
| 2401541-005 | HA-2-S3 | 01/24/2024 1:40 PM | 01/30/2024 12:10 PM |
| 2401541-006 | HA-2-S5 | 01/24/2024 2:55 PM | 01/30/2024 12:10 PM |
| 2401541-007 | HA-2-S7 | 01/24/2024 10:45 AM | 01/30/2024 12:10 PM |
| 2401541-008 | MW-23D-S4 | 01/22/2024 12:10 PM | 01/30/2024 12:10 PM |
| 2401541-009 | MW-23D-S6 | 01/22/2024 3:10 PM | 01/30/2024 12:10 PM |
| 2401541-010 | MW-23D-Dup | 01/22/2024 3:30 PM | 01/30/2024 12:10 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 401358

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-001

Client Sample ID: HA-1-S2

Collection Date: 1/26/2024 9:35:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|----------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 12:50:00 PM |
|----------------------|----|-------|--|-------|---|----------------------|

Lab ID: 2401541-002

Client Sample ID: HA-1-S4

Collection Date: 1/26/2024 10:55:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:04:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-003

Client Sample ID: HA-1-S6

Collection Date: 1/26/2024 2:30:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:17:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-004

Client Sample ID: HA-1-Dup

Collection Date: 1/26/2024 3:00:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791

Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 1:31:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-005

Client Sample ID: HA-2-S3

Collection Date: 1/24/2024 1:40:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 2:58:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-006

Client Sample ID: HA-2-S5

Collection Date: 1/24/2024 2:55:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:12:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-007

Client Sample ID: HA-2-S7

Collection Date: 1/24/2024 10:45:00 AM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:25:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-008

Client Sample ID: MW-23D-S4

Collection Date: 1/22/2024 12:10:00 PM

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:42:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: **2401541**
Date Reported: **2/6/2024**

CLIENT: Friedman & Bruya
Project: 401358

Lab ID: 2401541-009

Collection Date: 1/22/2024 3:10:00 PM

Client Sample ID: MW-23D-S6

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 3:53:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Lab ID: 2401541-010

Collection Date: 1/22/2024 3:30:00 PM

Client Sample ID: MW-23D-Dup

Matrix: Soil

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 42791 Analyst: FG

| | | | | | | |
|----------------------|----|-------|--|-------|---|---------------------|
| Total Organic Carbon | ND | 0.150 | | %-dry | 1 | 2/2/2024 4:11:00 PM |
|----------------------|----|-------|--|-------|---|---------------------|

Work Order: 2401541
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-42791 | SampType: MBLK | Units: %-dry | | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | | |
| Client ID: MBLKS | Batch ID: 42791 | | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866871 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Total Organic Carbon | ND | 0.150 | | | | | | | | | |
|----------------------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-42791 | | SampType: LCS | | | Units: %-dry | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | |
| Client ID: LCSS | | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866873 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.02 | 0.150 | 1.000 | 0 | 102 | 80 | 120 | | | | |
|----------------------|------|-------|-------|---|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2401522-001ADUP | SampType: DUP | Units: %-dry | | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | | |
| Client ID: BATCH | Batch ID: 42791 | | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866874 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------|-------|-------|--|--|--|--|--|--------|------|----|--|
| Total Organic Carbon | 0.541 | 0.150 | | | | | | 0.4766 | 12.7 | 20 | |
|----------------------|-------|-------|--|--|--|--|--|--------|------|----|--|

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2401522-001AMS | | SampType: MS | | | Units: %-dry | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | |
| Client ID: BATCH | | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866875 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|--------|-----|----|-----|--|--|--|--|
| Total Organic Carbon | 1.61 | 0.150 | 1.000 | 0.4766 | 113 | 75 | 125 | | | | |
|----------------------|------|-------|-------|--------|-----|----|-----|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2401522-001AMSD | | SampType: MSD | | | Units: %-dry | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | |
| Client ID: BATCH | | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866876 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------------|------|-------|-------|--------|-----|----|-----|-------|------|----|---|
| Total Organic Carbon | 1.87 | 0.150 | 1.000 | 0.4766 | 140 | 75 | 125 | 1.607 | 15.3 | 20 | S |
|----------------------|------|-------|-------|--------|-----|----|-----|-------|------|----|---|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2401541
CLIENT: Friedman & Bruya
Project: 401358

QC SUMMARY REPORT

Total Organic Carbon by EPA 9060

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2401557-001ADUP | | SampType: DUP | | | Units: %-dry | | Prep Date: 2/1/2024 | | | RunNo: 89413 | | |
| Client ID: BATCH | | Batch ID: 42791 | | | Analysis Date: 2/2/2024 | | | SeqNo: 1866891 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 7.96 | 0.150 | | | | | | 13.29 | 50.2 | 20 | E | |

Sample Log-In Check List

Client Name: FB

Work Order Number: 2401541

Logged by: Morgan Wilson

Date Received: 1/30/2024 12:10:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 2.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2401541

Page # _____ of _____

SUBCONTRACTOR
Fremont

PROJECT NAME/NO.

401358

PO #

D-655mg

REMARKS

EIM & EquiS4

TURNAROUND TIME

☒ Standard

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Send Report To Michael ErdahlCompany Friedman and Bruya, Inc.Address 3012 16th Ave WCity, State, ZIP Seattle, WA 98119Phone # (206) 285-8282 merdahl@friedmanandbruya.com

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | COC | ANALYSES REQUESTED | | | | | | | | | | Notes |
|----------------------------|--------|--------------|--------------|--------|-----------|-----|--------------------|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | |
| HA-1-S2 | | 1/26/2024 | 935 | soil | 1 | x | | | | | | | | | | | |
| HA-1-S4 | | 1/26/2024 | 1055 | soil | 1 | x | | | | | | | | | | | |
| HA-1-S6 | | 1/26/2024 | 1430 | soil | 1 | x | | | | | | | | | | | |
| HA-1-Dup | | 1/26/2024 | 1500 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S3 | | 1/24/2024 | 1340 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S5 | | 1/24/2024 | 1455 | soil | 1 | x | | | | | | | | | | | |
| HA-2-S7 HA-2-S7 | | 1/25/2024 | 1045 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-S4 | | 1/22/2024 | 1210 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-S6 | | 1/22/2024 | 1510 | soil | 1 | x | | | | | | | | | | | |
| MW-23D-Dup | | 1/22/2024 | 1530 | soil | 1 | x | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Mac Goldman

Friedman and Bruya

6/30

9:55

Received by: [Signature]

N/A Rts

FAD

1/30

12:10

Ph. (206) 285-8282

Relinquished by:

Fax (206) 283-5044

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 27, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the additional results from the testing of material submitted on February 6, 2024 from the Whidbey Marine 0204475-001, F&BI 402067 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data
HNA0227R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine 0204475-001, F&BI 402067 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 402067 -01 | MW-1S |
| 402067 -02 | MW-3S |
| 402067 -03 | MW-22D |
| 402067 -04 | MW-23D |

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 02/06/24 | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 402067-04 1/50 |
| Date Analyzed: | 02/19/24 | Data File: | 021931.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 93 | 71 | 132 |
| Toluene-d8 | 97 | 68 | 139 |
| 4-Bromofluorobenzene | 108 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <50 | 1,3-Dichloropropane | <50 |
| Chloromethane | <500 ca | Tetrachloroethene | <2.5 j |
| Vinyl chloride | <1 | Dibromochloromethane | <25 |
| Bromomethane | <250 | 1,2-Dibromoethane (EDB) | <20 |
| Chloroethane | <50 | Chlorobenzene | <50 |
| Trichlorofluoromethane | <50 | Ethylbenzene | 1,300 |
| Acetone | <2,500 ca | 1,1,1,2-Tetrachloroethane | <50 |
| 1,1-Dichloroethene | <50 | m,p-Xylene | 4,600 |
| Hexane | <250 | o-Xylene | 1,100 |
| Methylene chloride | <250 | Styrene | <50 |
| Methyl t-butyl ether (MTBE) | <50 | Isopropylbenzene | <50 |
| trans-1,2-Dichloroethene | <50 | Bromoform | <250 |
| 1,1-Dichloroethane | <50 | n-Propylbenzene | 75 |
| 2,2-Dichloropropane | <50 | Bromobenzene | <50 |
| cis-1,2-Dichloroethene | <50 | 1,3,5-Trimethylbenzene | 200 |
| Chloroform | <50 | 1,1,2,2-Tetrachloroethane | <10 |
| 2-Butanone (MEK) | <1,000 ca | 1,2,3-Trichloropropane | <50 |
| 1,2-Dichloroethane (EDC) | <10 | 2-Chlorotoluene | <50 |
| 1,1,1-Trichloroethane | <50 | 4-Chlorotoluene | <50 |
| 1,1-Dichloropropene | <50 | tert-Butylbenzene | <50 |
| Carbon tetrachloride | <25 | 1,2,4-Trimethylbenzene | 560 |
| Benzene | 10 j | sec-Butylbenzene | <50 |
| Trichloroethene | <1.5 j | p-Isopropyltoluene | <50 |
| 1,2-Dichloropropane | <50 | 1,3-Dichlorobenzene | <50 |
| Bromodichloromethane | <25 | 1,4-Dichlorobenzene | <50 |
| Dibromomethane | <50 | 1,2-Dichlorobenzene | <50 |
| 4-Methyl-2-pentanone | <500 | 1,2-Dibromo-3-chloropropane | <500 |
| cis-1,3-Dichloropropene | <20 | 1,2,4-Trichlorobenzene | <50 |
| Toluene | 14,000 ve | Hexachlorobutadiene | <25 |
| trans-1,3-Dichloropropene | <20 | Naphthalene | 270 |
| 1,1,2-Trichloroethane | <25 | 1,2,3-Trichlorobenzene | <50 ca |
| 2-Hexanone | <500 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine 0204475-001 |
| Date Extracted: | 02/07/24 | Lab ID: | 04-0284 mb |
| Date Analyzed: | 02/07/24 | Data File: | 020709.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 113 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.05 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 ca | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.05 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.03 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402068-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 99 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 103 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 99 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 94 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 79 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 44 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 91 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 92 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 94 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 84 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 91 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 87 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 96 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 88 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 90 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 101 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 87 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | 3.6 | 95 b | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 105 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 93 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 88 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 86 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 108 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 114 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 105 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 93 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/27/24

Date Received: 02/06/24

Project: Whidbey Marine 0204475-001, F&BI 402067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 105 | 104 | 46-206 | 1 |
| Chloromethane | ug/L (ppb) | 10 | 105 | 103 | 59-132 | 2 |
| Vinyl chloride | ug/L (ppb) | 10 | 100 | 99 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 93 | 102 | 50-197 | 9 |
| Chloroethane | ug/L (ppb) | 10 | 97 | 96 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 87 | 75 | 51-159 | 15 |
| Acetone | ug/L (ppb) | 50 | 51 | 52 | 10-140 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 90 | 90 | 64-140 | 0 |
| Hexane | ug/L (ppb) | 10 | 100 | 102 | 54-136 | 2 |
| Methylene chloride | ug/L (ppb) | 10 | 97 | 93 | 43-134 | 4 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 97 | 96 | 64-148 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Chloroform | ug/L (ppb) | 10 | 87 | 90 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 75 | 89 | 47-112 | 17 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 94 | 93 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 89 | 88 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 102 | 101 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 90 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| Bromodichloromethane | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| Dibromomethane | ug/L (ppb) | 10 | 103 | 100 | 70-130 | 3 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 103 | 105 | 68-130 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 100 | 96 | 69-131 | 4 |
| Toluene | ug/L (ppb) | 10 | 99 | 97 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 99 | 96 | 70-130 | 3 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 104 | 101 | 70-130 | 3 |
| 2-Hexanone | ug/L (ppb) | 50 | 91 | 90 | 45-138 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 110 | 103 | 70-130 | 7 |
| Tetrachloroethene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | 106 | 101 | 60-148 | 5 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 109 | 107 | 70-130 | 2 |
| Chlorobenzene | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| m,p-Xylene | ug/L (ppb) | 20 | 96 | 96 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 92 | 91 | 70-130 | 1 |
| Styrene | ug/L (ppb) | 10 | 91 | 88 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| Bromoform | ug/L (ppb) | 10 | 119 | 111 | 69-138 | 7 |
| n-Propylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 126 | 122 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 118 | 114 | 70-130 | 3 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 101 | 99 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 119 | 117 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 99 | 105 | 70-130 | 6 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 111 | 70-130 | 10 |
| Naphthalene | ug/L (ppb) | 10 | 113 | 119 | 70-130 | 5 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 106 | 114 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402067

SAMPLE CHAIN OF CUSTODY

02/06/24

vw4/KS/F31

Report To H. Good, V. Pehlivan

Company HA

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) 

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

Page # _____ of _____

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

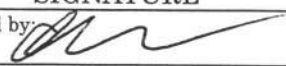
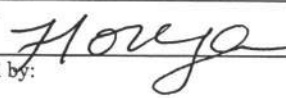
☐ Archive samples☐ Other _____

Default: Dispose after 30 days

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|-------------|---------------|---------------|--------|------------------------------|-----|-----|---------------|---------------------|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | Geochemical | VOCs EPA 8260 | PAHs EPA 8270 | CLVOCs | NWTPH-Dx w/ Gluc gel cleanup | TOC | TSS | Tot, Dx As+Pb | |
| MW-15 | 01 A-G | 4/5/24 | 1430 | water | 7 | X | X | X | | | | X | X | | | | Geochemical |
| MW-35 | 02 A-G | | 1200 | | 7 | X | X | X | | | | X | X | | | | parameters |
| MW-22D | 03 A-O | | 1540 | | 17 | X | X | | X | X | X | | X | X | X | X | nitrate, nitrite |
| MW-23D | 04 A-G | ✓ | 1240 | ✓ | 16 | X | X | | X | X | X | | X | X | X | X | ammonia, chloride |
| | | | | | | | | | | | | | | | | | sulfate, alkali/met |
| | | | | | | | | | | | | | | | | | sulfide, MEE |
| | | | | | | | | | | | | | | | | | dissolved met |
| | | | | | | | | | | | | | | | | | manganese |
| | | | | | | | | | | | | | | | | | include Dx, -O |
| | | | | | | | | | | | | | | | | | Chromatograms |

NO Fe per H6 2/7/24 ME

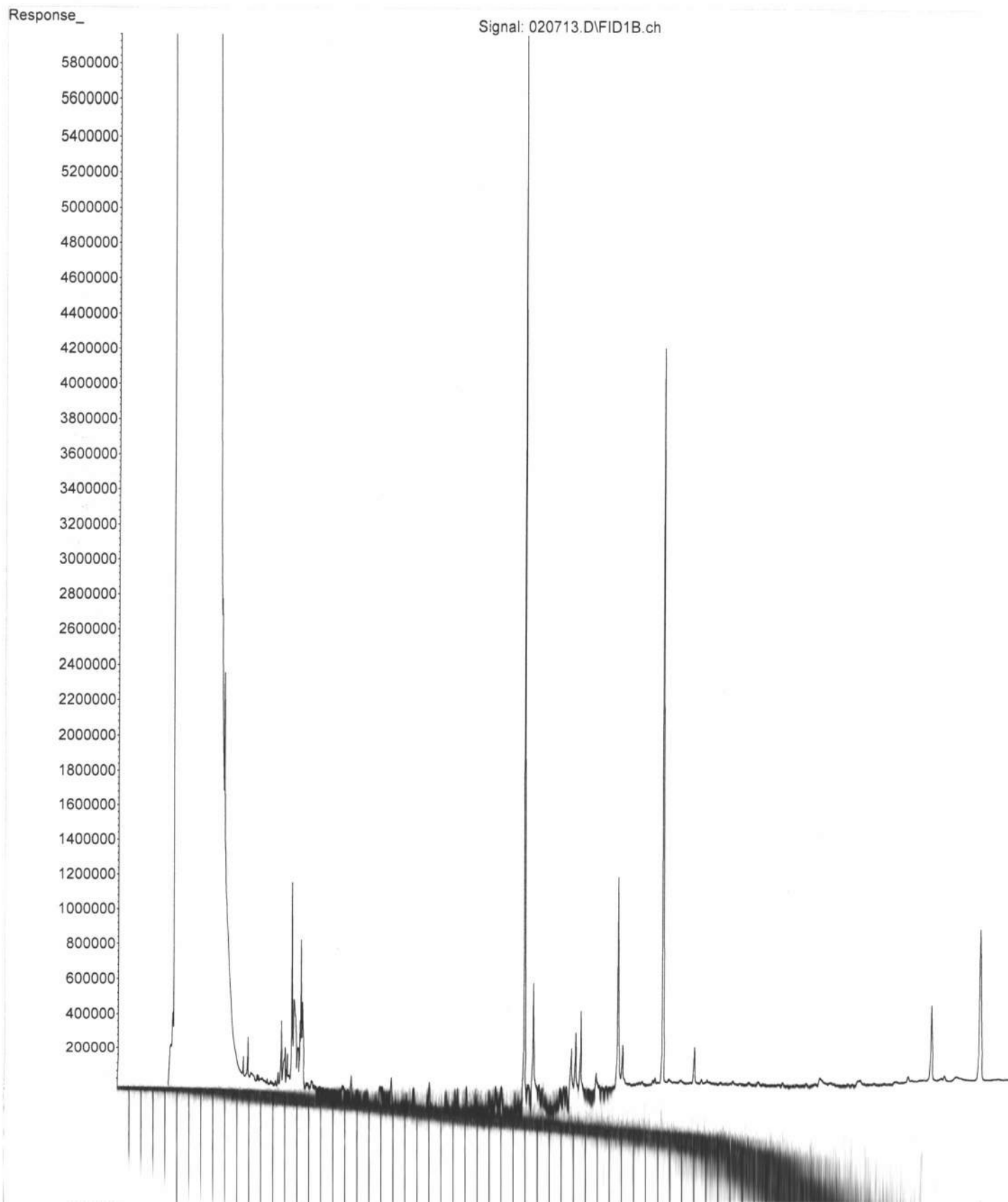
Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|-----------------|---------|--------|-------|
| Relinquished by:  | Andrew Nakshorn | HA | 4/6/24 | 1220 |
| Received by:  | HONG NGUYEN | FBI | 4/6/24 | 12:20 |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples received at 4 °C

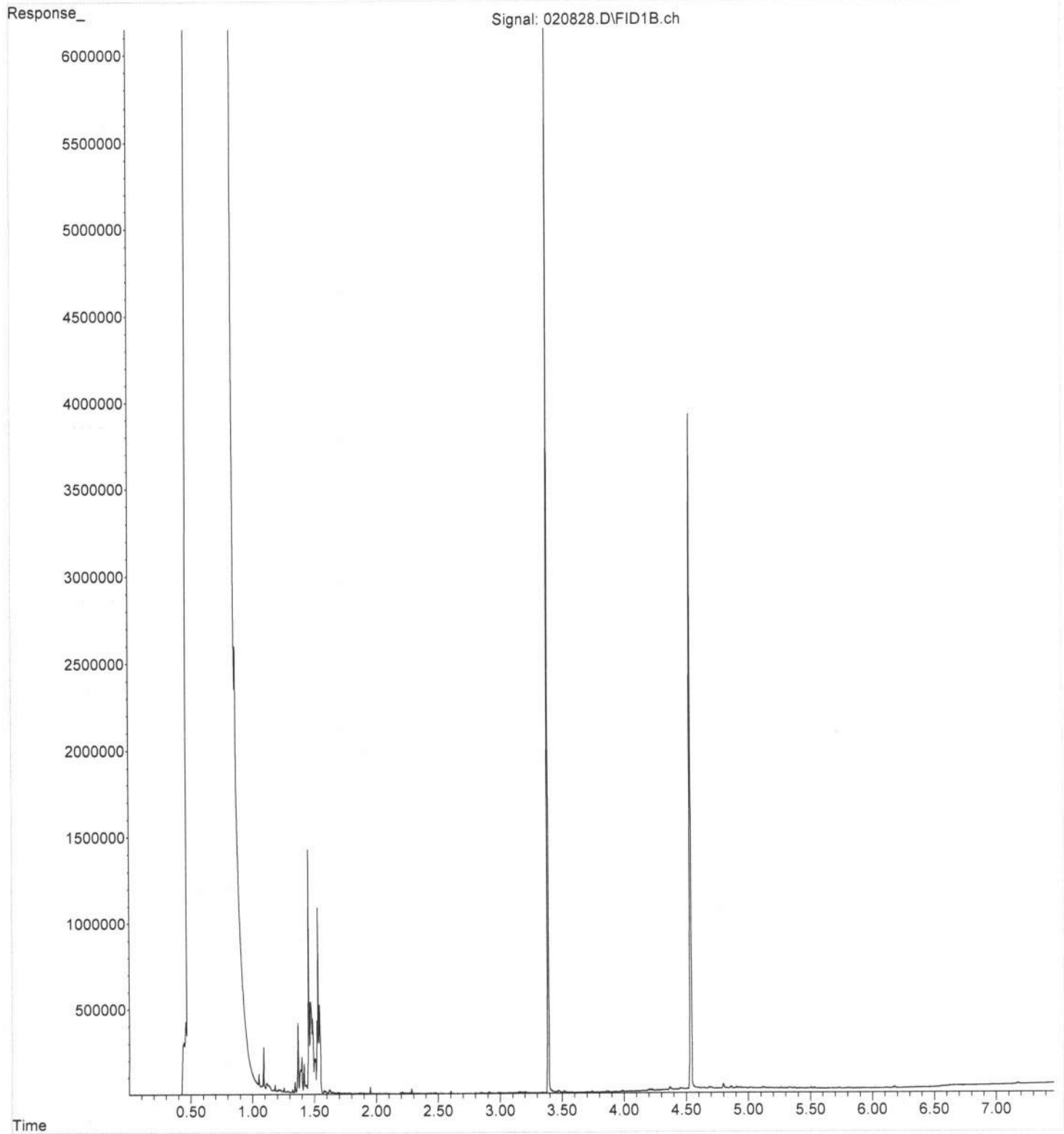
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Instrument : GC14
Sample Name: 402067-01
Misc Info :
Vial Number: 13

ERR



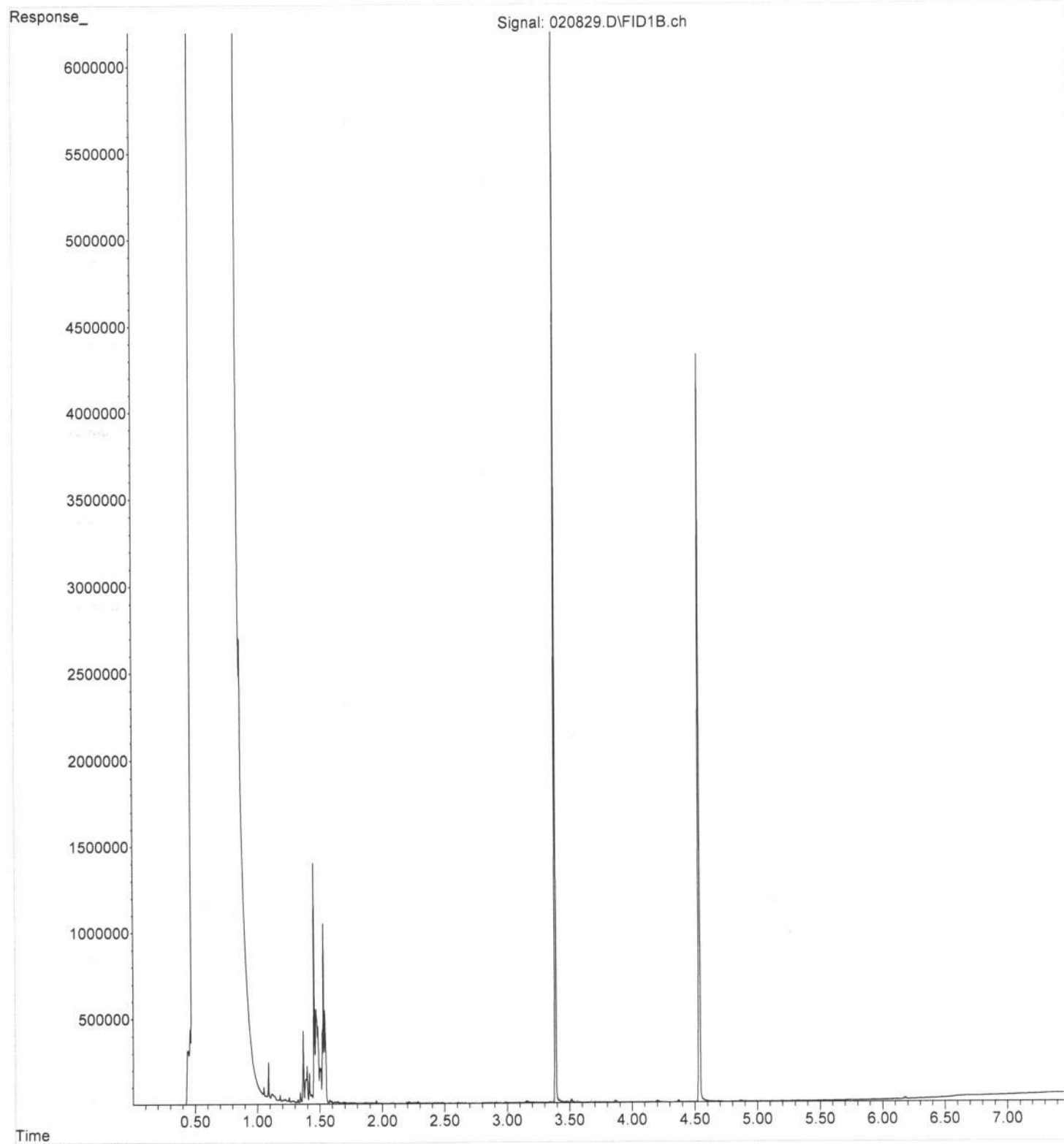
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Instrument : GC14
Sample Name: 402067-01 sg
Misc Info :
Vial Number: 23

ERR



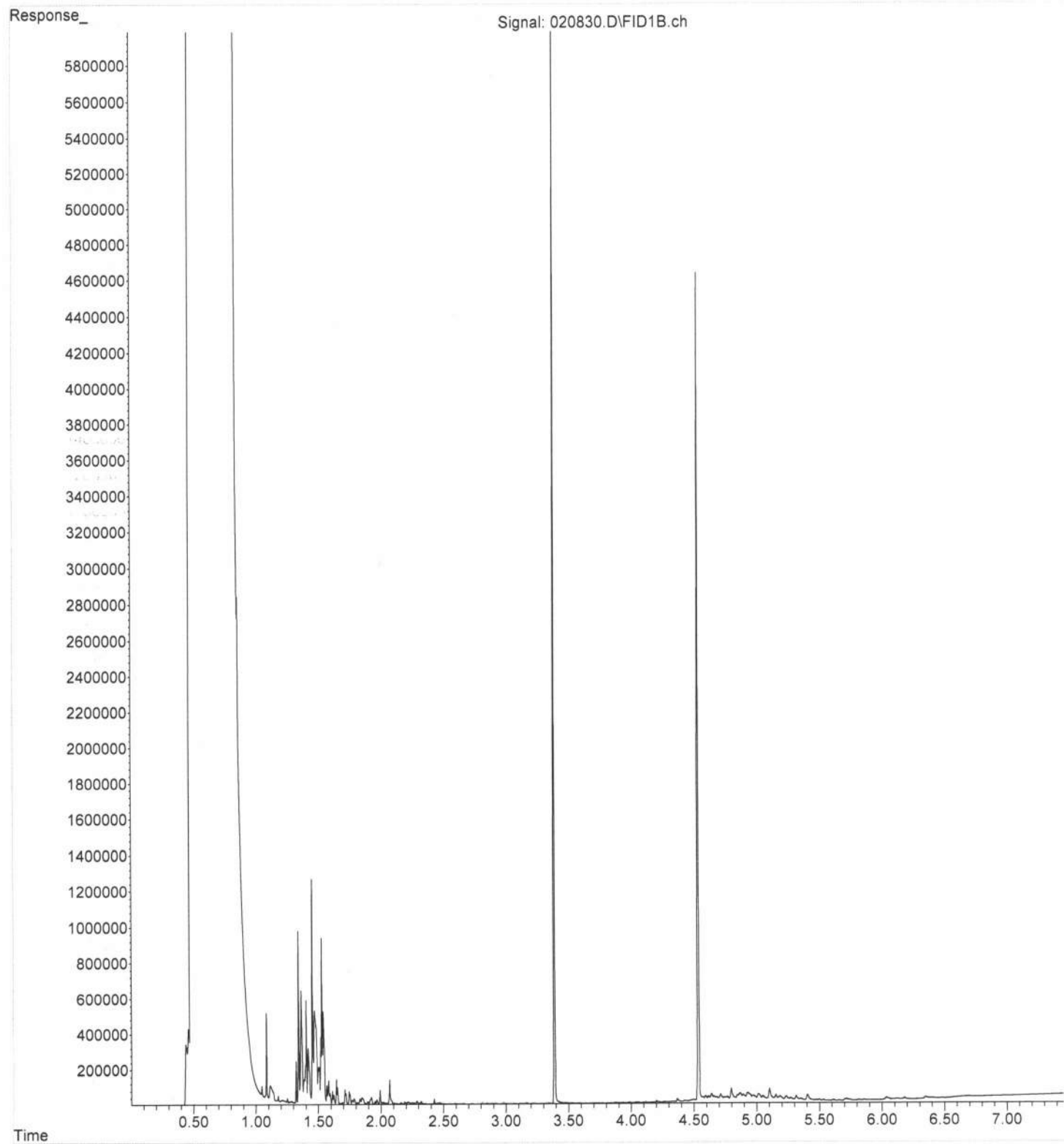
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Instrument : GC14
Sample Name: 402067-02 sg
Misc Info :
Vial Number: 24

ERR



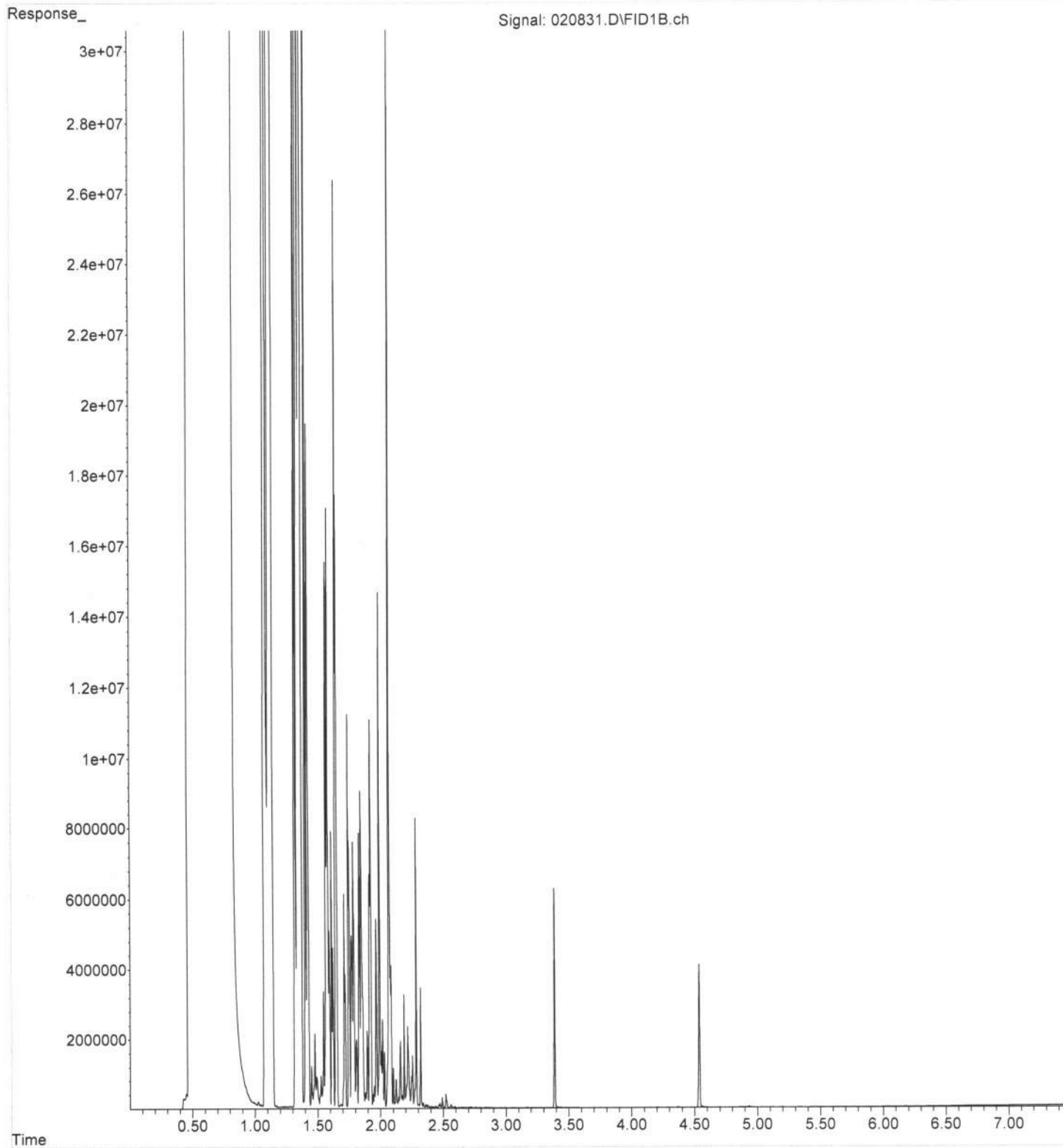
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Instrument : GC14
Sample Name: 402067-03 sg
Misc Info :
Vial Number: 25

ERR



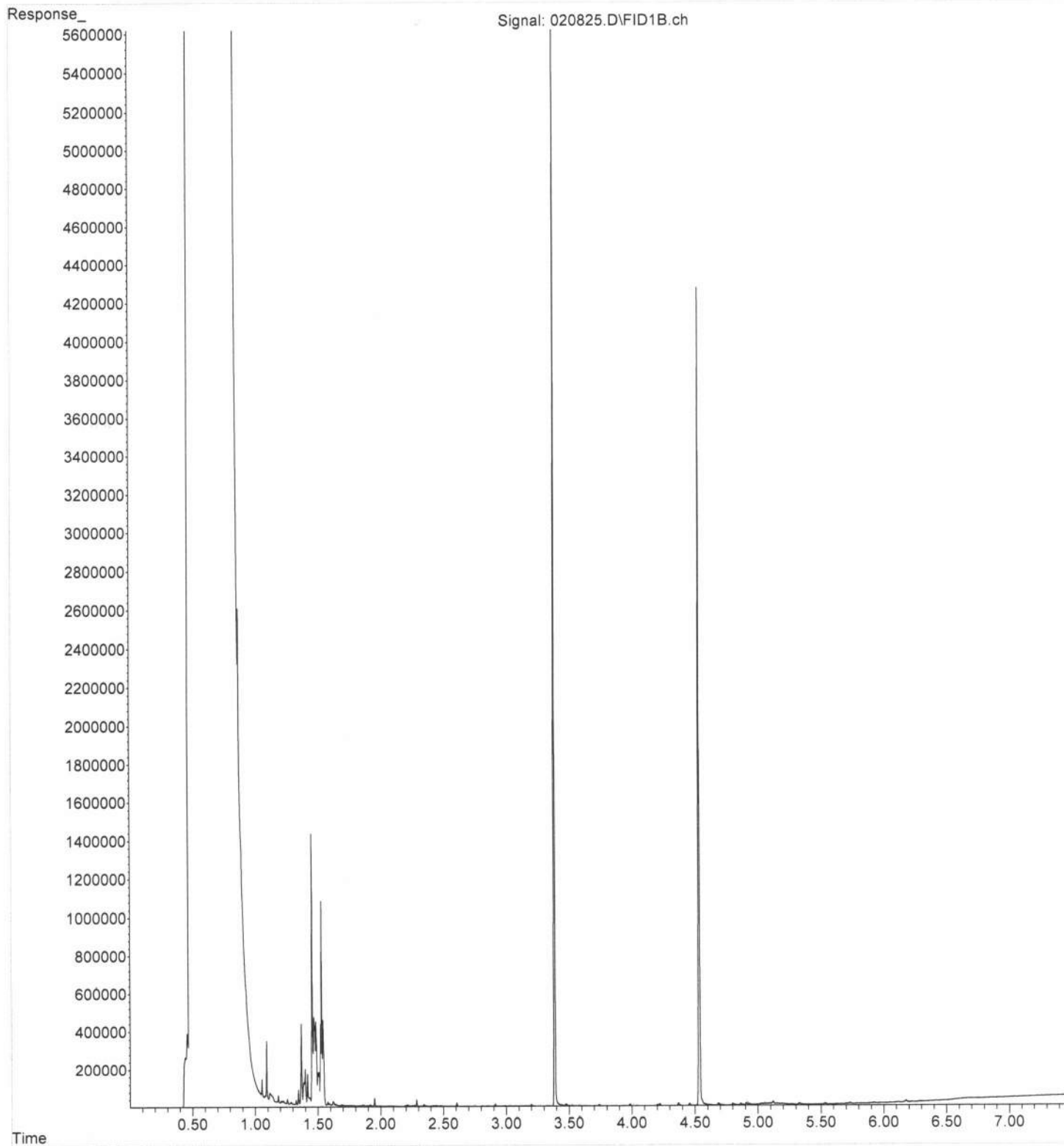
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Instrument : GC14
Sample Name: 402067-04 sg
Misc Info :
Vial Number: 26

ERR



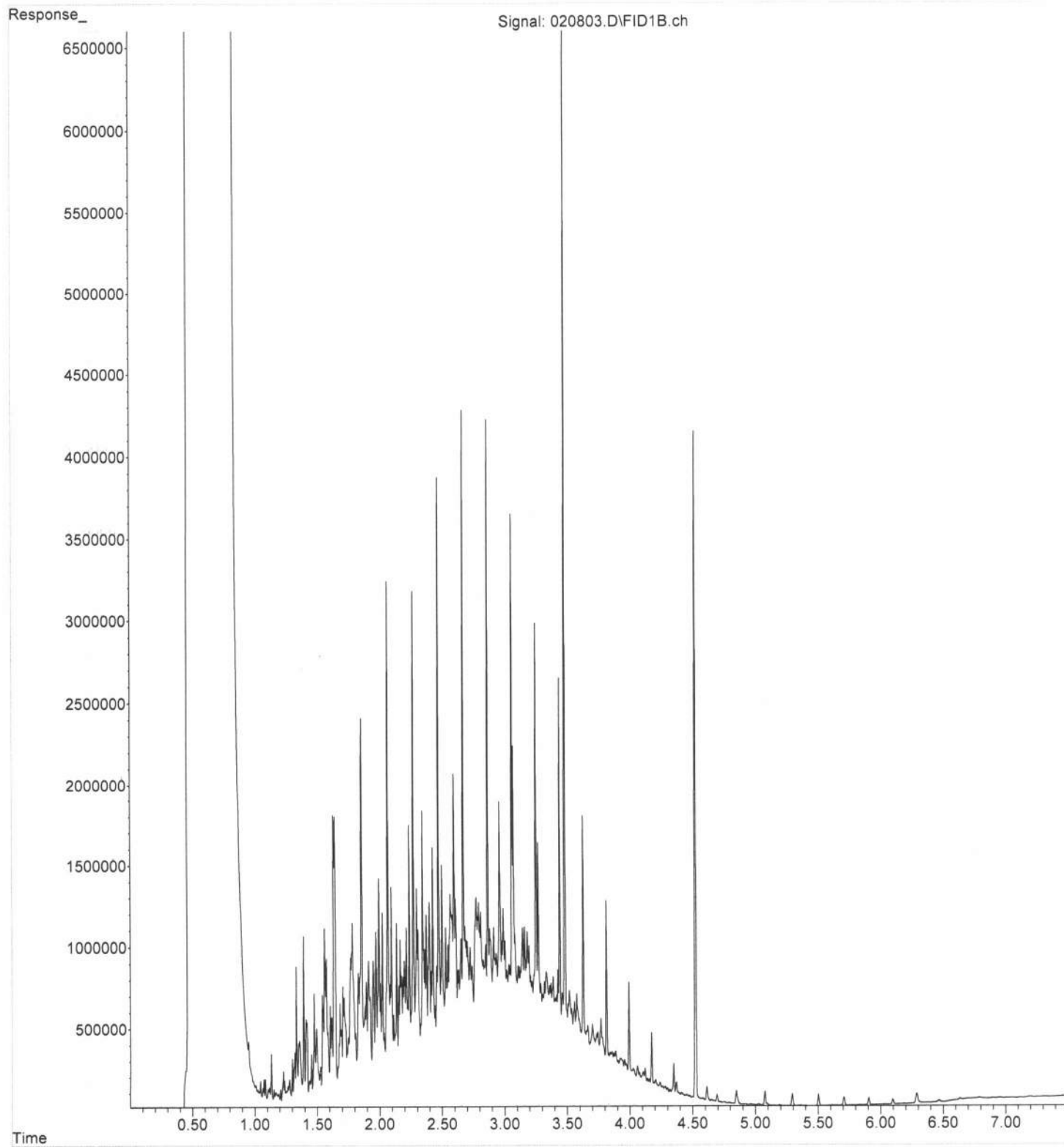
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Operator : TL
Acquired : 08 Feb 2024 04:33 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-325 mb sg
Misc Info :
Vial Number: 20

ERR



File :P:\Proc_GC14\02-08-24\020803.D
Operator : TL
Acquired : 08 Feb 2024 09:00 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40D
Misc Info :
Vial Number: 3

ERR





Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 402067
Work Order Number: 2402085

February 13, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 2/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA Method 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 402067
Work Order: 2402085

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2402085-001 | MW-22D | 02/05/2024 3:40 PM | 02/06/2024 3:40 PM |
| 2402085-002 | MW-23D | 02/05/2024 12:40 PM | 02/06/2024 3:40 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 402067

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-001

Collection Date: 2/5/2024 3:40:00 PM

Client Sample ID: MW-22D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R89591 Analyst: LB

| | | | | | | |
|---------|----|---------|--|------|---|-----------------------|
| Methane | ND | 0.00675 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 12:59:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 12:59:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 42841 Analyst: SLL

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Chloride | 6.32 | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |
| Sulfate | 7.03 | 3.00 | D | mg/L | 5 | 2/7/2024 12:25:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R89535 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|---------------------|
| Total Organic Carbon | 1.48 | 0.700 | | mg/L | 1 | 2/8/2024 9:12:00 PM |
|----------------------|------|-------|--|------|---|---------------------|

Total Alkalinity by SM 2320B

Batch ID: R89571 Analyst: SS

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 147 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 42892 Analyst: FG

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:42:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R89559 Analyst: FG

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 402067

Lab ID: 2402085-002

Collection Date: 2/5/2024 12:40:00 PM

Client Sample ID: MW-23D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R89591 Analyst: LB

| | | | | | | |
|---------|--------|---------|--|------|---|----------------------|
| Methane | 0.0599 | 0.00675 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethene | ND | 0.0146 | | mg/L | 1 | 2/12/2024 1:02:00 PM |
| Ethane | ND | 0.0151 | | mg/L | 1 | 2/12/2024 1:02:00 PM |

Ion Chromatography by EPA Method 300.0

Batch ID: 42841 Analyst: SLL

| | | | | | | |
|----------------|------|-------|---|------|---|----------------------|
| Chloride | 27.1 | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrite (as N) | ND | 0.600 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Nitrate (as N) | ND | 0.500 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |
| Sulfate | ND | 3.00 | D | mg/L | 5 | 2/7/2024 12:48:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R89535 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|---------------------|
| Total Organic Carbon | 11.3 | 0.700 | | mg/L | 1 | 2/8/2024 9:45:00 PM |
|----------------------|------|-------|--|------|---|---------------------|

Total Alkalinity by SM 2320B

Batch ID: R89571 Analyst: SS

| | | | | | | |
|---|-----|------|--|------|---|----------------------|
| Alkalinity, Total (As CaCO ₃) | 244 | 2.50 | | mg/L | 1 | 2/13/2024 9:19:17 AM |
|---|-----|------|--|------|---|----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 42892 Analyst: FG

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.100 | | mg/L | 1 | 2/12/2024 1:47:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R89559 Analyst: FG

| | | | | | | |
|---------|--------|--------|--|------|---|-----------------------|
| Sulfide | 0.0672 | 0.0500 | | mg/L | 1 | 2/12/2024 11:46:45 AM |
|---------|--------|--------|--|------|---|-----------------------|

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R89571 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/13/2024 | | | | RunNo: 89571 | | |
| Client ID: MBLKW | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | | SeqNo: 1869827 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R89571 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/13/2024 | | | | RunNo: 89571 | | |
| Client ID: LCSW | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | | SeqNo: 1869828 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 108 | 2.50 | 100.0 | 0 | 108 | 86.2 | 126.2 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2402085-001ADUP | SampType: DUP | Units: mg/L | | | | Prep Date: 2/13/2024 | | | | RunNo: 89571 | | |
| Client ID: MW-22D | Batch ID: R89571 | | | | | Analysis Date: 2/13/2024 | | | | SeqNo: 1869830 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 153 | 2.50 | | | | | | 146.5 | 4.54 | 20 | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42892 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: MBLKW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869931 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-42892 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: LCSW | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869932 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.455 | 0.100 | 0.5000 | 0 | 91.0 | 83.5 | 113.5 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869934 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.100 | | | | | | 0 | | 30 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869935 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.479 | 0.100 | 0.5000 | 0 | 95.8 | 17 | 145 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402083-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/12/2024 | | | RunNo: 89575 | | |
| Client ID: BATCH | Batch ID: 42892 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869936 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | 0.473 | 0.100 | 0.5000 | 0 | 94.6 | 17 | 145 | 0.4790 | 1.26 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------|-----------|-------------|----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-42841 | SampType: MBLK | Units: mg/L | | | Prep Date: 2/6/2024 | | | | RunNo: 89464 | | |
| Client ID: MBLKW | Batch ID: 42841 | Analysis Date: 2/6/2024 | | | | | | | SeqNo: 1867805 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.120 | | | | | | | | | |
| Nitrite (as N) | ND | 0.120 | | | | | | | | | |
| Nitrate (as N) | ND | 0.100 | | | | | | | | | |
| Sulfate | ND | 0.600 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-42841 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: LCSW | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867806 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.736 | 0.120 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Nitrite (as N) | 0.716 | 0.120 | 0.7500 | 0 | 95.5 | 90 | 110 | | | | |
| Nitrate (as N) | 0.744 | 0.100 | 0.7500 | 0 | 99.2 | 90 | 110 | | | | |
| Sulfate | 3.57 | 0.600 | 3.750 | 0 | 95.1 | 90 | 110 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867808 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|------|----|--|
| Chloride | 0.211 | 0.120 | | | | | | 0.2080 | 1.43 | 20 | |
| Nitrite (as N) | ND | 0.120 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 0.162 | 0.100 | | | | | | 0.1600 | 1.24 | 20 | |
| Sulfate | ND | 0.600 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|-------|----|-----|--|--|--|----|
| Chloride | 31.5 | 0.120 | 0.7500 | 0.2080 | 4,180 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.735 | 0.120 | 0.7500 | 0 | 98.0 | 80 | 120 | | | | |
| Nitrate (as N) | 1.06 | 0.100 | 0.7500 | 0.1600 | 120 | 80 | 120 | | | | S |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Ion Chromatography by EPA Method 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|----------|------|
| Sample ID: 2401588-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/6/2024 | | RunNo: 89464 | | |
| Client ID: BATCH | | Batch ID: 42841 | | | Analysis Date: 2/6/2024 | | | | SeqNo: 1867809 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 9.73 | 0.600 | 3.750 | 0.2550 | 253 | 80 | 120 | | | | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2401588-001BMSD | SampType: MSD | Units: mg/L | | | Prep Date: 2/6/2024 | | | RunNo: 89464 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | Batch ID: 42841 | | | | Analysis Date: 2/6/2024 | | | SeqNo: 1867810 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 31.4 | 0.120 | 0.7500 | 0.2080 | 4,160 | 80 | 120 | 31.53 | 0.346 | 20 | ES |
| Nitrite (as N) | 0.727 | 0.120 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7350 | 1.09 | 20 | |
| Nitrate (as N) | 1.05 | 0.100 | 0.7500 | 0.1600 | 119 | 80 | 120 | 1.061 | 0.947 | 20 | |
| Sulfate | 9.59 | 0.600 | 3.750 | 0.2550 | 249 | 80 | 120 | 9.733 | 1.48 | 20 | S |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R89559 | SampType: MBLK | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89559 | | | | | | | |
| Client ID: MBLKW | Batch ID: R89559 | | Analysis Date: 2/12/2024 | SeqNo: 1869569 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfide ND 0.0500

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: LCS-R89559 | | SampType: LCS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: LCSW | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869570 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Sulfide 0.221 0.0500 0.2000 0 111 80 120

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2402085-002CDUP | SampType: DUP | Units: mg/L | Prep Date: 2/12/2024 | RunNo: 89559 | | | | | | | |
| Client ID: MW-23D | Batch ID: R89559 | | Analysis Date: 2/12/2024 | SeqNo: 1869626 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfide 0.0614 0.0500 0.06724 9.01 20

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2402085-002CMS | | SampType: MS | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: MW-23D | | Batch ID: R89559 | | | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869627 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfide 0.279 0.0500 0.2000 0.06724 106 80 120

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-----------------------|------|---------------------|------|
| Sample ID: 2402085-002CMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 2/12/2024 | | | | RunNo: 89559 | |
| Client ID: MW-23D | | Batch ID: R89559 | | Analysis Date: 2/12/2024 | | | | SeqNo: 1869628 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfide 0.292 0.0500 0.2000 0.06724 112 80 120 0.2793 4.46 20

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869640 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.283 | 0.0500 | | | | | | 0.2573 | 9.44 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2402099-009CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89559 | | |
| Client ID: BATCH | | Batch ID: R89559 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1869641 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.442 | 0.0500 | 0.2000 | 0.2573 | 92.1 | 80 | 120 | | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-R89535 | SampType: MBLK | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: MBLKW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869134 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R89535 | SampType: LCS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: LCSW | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869135 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 5.05 | 0.700 | 5.000 | 0 | 101 | 90 | 116 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|------------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402046-001ADUP | SampType: DUP | Units: mg/L-dry | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869138 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 22.0 | 2.24 | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMS | SampType: MS | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869139 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.5 | 0.700 | 5.000 | 7.032 | 88.9 | 41.1 | 150 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2402064-001AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 2/8/2024 | | | RunNo: 89535 | | |
| Client ID: BATCH | Batch ID: R89535 | | | | | Analysis Date: 2/8/2024 | | | SeqNo: 1869140 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 11.8 | 0.700 | 5.000 | 7.032 | 94.5 | 41.1 | 150 | 11.48 | 2.44 | 30 | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: CCB-D | SampType: MBLK | Units: mg/L | | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | |
| Client ID: MBLKW | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | SeqNo: 1869461 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2402100-001CDUP | SampType: DUP | Units: mg/L | | Prep Date: 2/9/2024 | RunNo: 89535 | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | | Analysis Date: 2/9/2024 | SeqNo: 1869477 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 1.72 | 0.700 | | | | | | 0 | 0 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2402100-001CMS | SampType: MS | Units: mg/L | | Prep Date: 2/10/2024 | RunNo: 89535 | | | | | | |
| Client ID: BATCH | Batch ID: R89535 | | | Analysis Date: 2/10/2024 | SeqNo: 1869438 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 6.39 | 0.700 | 5.000 | 0 | 128 | 41.1 | 150 | | | | |

Work Order: 2402085
CLIENT: Friedman & Bruya
Project: 402067

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R89591 | | SampType: LCS | | | Units: ppmv | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: LCSW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | SeqNo: 1870309 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 964 | 0.00675 | 1,000 | 0 | 96.4 | 73.6 | 124 | | | | |
| Ethene | 962 | 0.0146 | 1,000 | 0 | 96.2 | 76.3 | 122 | | | | |
| Ethane | 1,010 | 0.0151 | 1,000 | 0 | 101 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R89591 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: MBLKW | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870308 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00675 | | | | | | | | | |
| Ethene | ND | 0.0146 | | | | | | | | | |
| Ethane | ND | 0.0151 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2402099-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 2/12/2024 | | | RunNo: 89591 | | |
| Client ID: BATCH | | Batch ID: R89591 | | | Analysis Date: 2/12/2024 | | | | | SeqNo: 1870287 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|---------|--|--|--|--|--|-------|------|----|---|
| Methane | 3.33 | 0.00675 | | | | | | 3.177 | 4.57 | 30 | E |
| Ethene | ND | 0.0146 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0151 | | | | | | 0 | | 30 | |

Sample Log-In Check List

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2402085
 Date Received: 2/6/2024 3:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 12. Does paperwork match bottle labels? Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Data Usability Summary Report

Project Name: HNA Whidbey Marine

Project Description: Groundwater Samples

Sample Dates: 7 through 9 May 2024

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Validation Performed by: Kristina Ilina

Validation Reviewed by: Gabrielle Davis

Validation Date: 24 May 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Groups**
 - 2. Precision and Accuracy [for SDG(s) above]**
 - 3. Explanations**
 - 4. Glossary**
 - 5. Abbreviations**
 - 6. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory reporting limit (RL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Groups

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 405142, dated 20 May 2024;
- 405176, dated 22 May 2024; and
- 405181, dated 21 May 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Methods E300, SM2320B, RSK175, SM4500-NH3G, SM5310C, and SM4500-S2-D were subcontracted to Fremont Analytical, Inc, an Alliance Technical Group company – Seattle, WA.

Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Issues noted with sample management are listed below:

- Custody seals were not used when samples were dropped off at the laboratory or service center by the field staff, submitted to a laboratory-provided courier, or when transported between subcontracted laboratories.
- The analysis was not performed on Trip Blank (405181-06) per COC.
- Some containers of sample MW-12D were missing the collection date on the labels.

Analyses were performed on the samples listed in Table 1. Method holding times are listed in Table 2.

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification (ICV) and/or continuing calibration verification (CCV) exceedances. Since these additional quality control issues were not required as per the QAPP, these quality control issues were not reviewed.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

| Lab ID | Analysis Date/Time | Method | Analyte | Qualification |
|---|---|---------|--|---|
| 405176-02 405181-01 405181-02 405181-05 | 5/16/2024 14:43 5/16/2024 14:10 5/15/2024 17:24 5/16/2024 16:22 5/16/2024 16:22 | SW8270E | Naphthalene and 2-Methylnaphthalene (for 405181-05) | The sample required the dilution due to results exceedance. The laboratory marked the original results non-reportable and the reanalysis results were accepted. |
| 405142-02 | 5/13/2024 11:21 5/14/2024 13:14 | SW8270E | 2-Methylnaphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Pyrene | An 8270E internal standard failed the acceptance criteria for sample MW-4S. The sample was diluted and reanalyzed with acceptable results. The laboratory marked the original results for 2-Methylnaphthalene non-reportable and the reanalysis results were accepted. For other analytes original results were accepted. |
| 405176-02 405176-06 405181-01 405181-02 405181-05 | 5/14/2024 18:16 5/14/2024 19:07 5/15/2024 14:23 5/15/2024 14:28 5/15/2024 14:51 | SW6020B | Arsenic | The laboratory reanalyzed the sample at the dilution to confirm the results. The laboratory marked the reanalysis results non-reportable and the original results were accepted. |

1.4 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

| Method | Matrix | Holding Time | Preservation | Sample ID, Violation, Qualification |
|--|--------|--------------|----------------------------------|---|
| E300, Nitrate (as N), Nitrite (as N) | Water | 48 Hours | Cool to $\leq 6^{\circ}\text{C}$ | The following samples were analyzed outside of holding time and were qualified J+/UJ: FD-01, MW-19D, MW-21D, MW-4S, MW-8S |

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.6 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.7 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.8 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

| Lab Sample Number | Matrix Spike/Matrix Spike Duplicate Sample Client ID | Method(s) |
|-------------------|--|------------------|
| 2405160-001A | MW-19D | E300.0, SM5310C |
| 405176-01 | MW-2S | SW6020B, SW8260D |
| 405176-02 | MW-12D | SW6020B |
| 2405202-003 | MW-8S | SM 4500 NH3G |
| 2405202-001 | MW-12D | E300.0 |
| 405181-03 | MW-20D | SW8260D |
| 2405200-002 | MW-22D | E300.0 |

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits, with the following exceptions:

| Sample Type | Method | Parent Sample | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|--------------|---------------|-------------------|---------|-----------|--|
| MS/MSD | E300.0 | MW-19D | Nitrate (as N) | 38%/40% | NA | None, native sample > 4x the spike added |
| MS/MSD | SW6020B | MW-12D | Arsenic | 56%/64% | J-/UJ | All samples |
| MS/MSD | SW6020B | MW-12D | Manganese | 0%/0% | NA | None, native sample > 4x the spike added |
| MS | SM 4500 NH3G | MW-8S | Nitrogen, Ammonia | 0% | R | MW-19D, MW-4S, MW-9D, MW-22D, MW-23D, MW-12D, MW-21D, MW-8S, MW-17D, FD-01 |

1.9 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.10 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

| Lab Sample Number | Laboratory Duplicate Sample Client ID | Method(s) |
|-------------------|---------------------------------------|-----------------|
| 405142-01 | MW-19D | NWTPH-GX |
| 405142-02 | MW-4S | SM2540D |
| 2405160-002 | MW-4S | SM2320B |
| 2405160-001 | MW-19D | E300.0, SM5310C |
| 2405202-003 | MW-8S | SM 4500 NH3G |
| 2405202-001 | MW-12D | E300.0 |
| 2405200-002 | MW-22D | E300.0 |
| 2405200-001 | MW-9D | RSK-175 |

The following sample(s) were used for field duplicate analysis. RPDs were all below 35 percent for water and 50 percent for soil (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|---|
| MW-21D | FD-01 | E300, NWTPH-DX, NWTPH-GX, RSK175, SM 2320B, SM 2540D, SM 4500-NH3G, SM 4500-S2-D, SM 5310C, EPA 6020B, EPA 8260D, EPA 8270E |

Field Duplicate RPD Calculations:

| Analyte | Primary Sample ID | Duplicate Sample ID | % RPD | Qualification |
|-------------|-------------------|---------------------|-------|-----------------------|
| | MW-21D | FD-01 | | |
| Naphthalene | ND | 0.47 | NA | J/UJ, Abs. Diff. > RL |

1.11 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable except for rejected data noted in Table 3. A summary of qualifiers applied to this dataset is shown in Table 3.

2. Precision and Accuracy [for SDG(s) above]

[Refer to Section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - FD Field Duplicate Sample
 - N Primary Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - GW/WG Groundwater
 - QW Water Quality
 - SO Soil
 - WQ Water Quality control matrix
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)
- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

5. Abbreviations

| | | | |
|----------------|--|-----------------|--|
| %D | Percent Difference | MDL | Laboratory Method Detection Limit |
| %R | Percent Recovery | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| %RSD | Percent Relative Standard Deviation | NA | not applicable |
| %v/v | Percent volume by volume | ND | Non-Detect |
| 2s | 2 sigma | NFG | National Functional Guidelines |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | NH ₃ | Ammonia |
| Abs Diff | Absolute Difference | NYSDEC | New York State Department of Environmental Conservation |
| amu | atomic mass unit | PAH | Polycyclic Aromatic Hydrocarbon |
| BPJ | Best Professional Judgement | PCB | Polychlorinated Biphenyl |
| BS | Blank Spike | PDS | Post-Digestion Spike |
| CCB | Continuing Calibration Blank | PEM | Performance Evaluation Mixture |
| CCV | Continuing Calibration Verification | PFAS | Per- and Polyfluoroalkyl Substances |
| CCVL | Continuing Calibration Verification Low | PFBA | Perfluorobutanoic Acid |
| COC | Chain of Custody | PFD | Perfluorodecalin |
| COM | Combined Isotope Calculation | PFOA | Perfluorooctanoic Acid |
| Cr (VI) | Hexavalent Chromium | PFOS | Perfluorooctane sulfonate |
| CRI | Collision Reaction Interface | PFPeA | Perfluoropentanoic Acid |
| DoD | Department of Defense | QAPP | Quality Assurance Project Plan |
| DQO | data quality objective | QC | Quality Control |
| DUSR | Data Usability Summary Report | QSM | Quality Systems Manual |
| EIS | Extraction Internal Standard | R ² | R-squared value |
| EMPC | Estimated Maximum Possible Concentration | Ra-226 | Radium-226 |
| FBK | Field Blank Contamination | Ra-228 | Radium-228 |
| FDP | Field Duplicate | RESC | Resolution Check Measure |
| GC | Gas Chromatograph | RL | Laboratory Reporting Limit |
| GC/MS | Gas Chromatography/Mass Spectrometry | RPD | Relative Percent Difference |
| GPC | Gel Permeation Chromatography | RRF | Relative Response Factor |
| H ₂ | Hydrogen gas | RT | Retention Time |
| HCl | Hydrochloric Acid | SAP | Sampling Analysis Plan |
| ICAL | Initial Calibration | SDG | Sample Delivery Group |
| ICB | Initial Calibration Blank | SIM | Selected ion monitoring |
| ICP/MS | Inductively Coupled Plasma/Mass Spectrometry | SOP | Standard Operating Procedure |
| ICV | Initial Calibration Verification | SPE | Solid-Phase Extraction |
| ICVL | Initial Calibration Verification Low | SVOC | Semi-Volatile Organic Compound |
| IPA | Isopropyl Alcohol | TCLP | Toxicity Characteristic Leaching Procedure |
| LC | Laboratory Control | TIC | Tentatively Identified Compound |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate | TKN | Total Kjeldahl Nitrogen |
| MBK | Method Blank Contamination | TPH | Total Petroleum Hydrocarbon |
| MDC | Minimum Detectable Concentration | TPU | Total Propagated Uncertainty |
| | | USEPA | U.S. Environmental Protection Agency |
| | | VOC | Volatile Organic Compound |
| | | WP | Work Plan |

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. Haley & Aldrich, Inc., 2024. Quality Assurance Project Plan. Whidbey Marine & Auto Supply Site. Freeland, Washington. January 2024.
2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

- Table 1 – Sample Management
- Table 2 – Method Holding Times
- Table 3 – System Performance Summary

TABLES

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods |
|-----------------|-------------|--------------|-------------|--------|---------|
| MW-19D-20240507 | N | 2405160-001A | 05/07/2024 | WG | G, H |
| MW-19D-20240507 | N | 2405160-001B | 05/07/2024 | WG | J, K |
| MW-19D-20240507 | N | 2405160-001C | 05/07/2024 | WG | L |
| MW-19D-20240507 | N | 2405160-001D | 05/07/2024 | WG | I |
| MW-4S-20240507 | N | 2405160-002A | 05/07/2024 | WG | G, H |
| MW-4S-20240507 | N | 2405160-002B | 05/07/2024 | WG | J, K |
| MW-4S-20240507 | N | 2405160-002C | 05/07/2024 | WG | L |
| MW-4S-20240507 | N | 2405160-002D | 05/07/2024 | WG | I |
| MW-9D-20240509 | N | 2405200-001A | 05/09/2024 | WG | I |
| MW-9D-20240509 | N | 2405200-001B | 05/09/2024 | WG | L |
| MW-9D-20240509 | N | 2405200-001C | 05/09/2024 | WG | G, H |
| MW-9D-20240509 | N | 2405200-001D | 05/09/2024 | WG | J, K |
| MW-22D-20240509 | N | 2405200-002A | 05/09/2024 | WG | I |
| MW-22D-20240509 | N | 2405200-002B | 05/09/2024 | WG | L |
| MW-22D-20240509 | N | 2405200-002C | 05/09/2024 | WG | G, H |
| MW-22D-20240509 | N | 2405200-002D | 05/09/2024 | WG | J, K |
| MW-23D-20240509 | N | 2405200-003A | 05/09/2024 | WG | I |
| MW-23D-20240509 | N | 2405200-003B | 05/09/2024 | WG | L |
| MW-23D-20240509 | N | 2405200-003C | 05/09/2024 | WG | G, H |
| MW-23D-20240509 | N | 2405200-003D | 05/09/2024 | WG | J, K |
| MW-12D-20240508 | N | 2405202-001A | 05/08/2024 | WG | I |
| MW-12D-20240508 | N | 2405202-001B | 05/08/2024 | WG | G, H |
| MW-12D-20240508 | N | 2405202-001C | 05/08/2024 | WG | L |
| MW-12D-20240508 | N | 2405202-001D | 05/08/2024 | WG | J, K |
| MW-21D-20240508 | N | 2405202-002A | 05/08/2024 | WG | I |
| MW-21D-20240508 | N | 2405202-002B | 05/08/2024 | WG | G, H |
| MW-21D-20240508 | N | 2405202-002C | 05/08/2024 | WG | L |
| MW-21D-20240508 | N | 2405202-002D | 05/08/2024 | WG | J, K |
| MW-8S-20240508 | N | 2405202-003A | 05/08/2024 | WG | I |
| MW-8S-20240508 | N | 2405202-003B | 05/08/2024 | WG | G, H |
| MW-8S-20240508 | N | 2405202-003C | 05/08/2024 | WG | L |
| MW-8S-20240508 | N | 2405202-003D | 05/08/2024 | WG | J, K |
| MW-17D-20240508 | N | 2405202-004A | 05/08/2024 | WG | I |
| MW-17D-20240508 | N | 2405202-004B | 05/08/2024 | WG | G, H |

TABLE 1
SAMPLE MANAGEMENT
HNA WHIDBEY MARINE

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods |
|-----------------|-------------|--------------|-------------|--------|------------------|
| MW-17D-20240508 | N | 2405202-004C | 05/08/2024 | WG | L |
| MW-17D-20240508 | N | 2405202-004D | 05/08/2024 | WG | J, K |
| FD-01-20240508 | N | 2405202-005A | 05/08/2024 | WG | I |
| FD-01-20240508 | N | 2405202-005B | 05/08/2024 | WG | G, H |
| FD-01-20240508 | N | 2405202-005C | 05/08/2024 | WG | L |
| FD-01-20240508 | N | 2405202-005D | 05/08/2024 | WG | J, K |
| MW-19D-20240507 | N | 405142-01 | 05/07/2024 | WG | A, B, C, D, E, F |
| MW-4S-20240507 | N | 405142-02 | 05/07/2024 | WG | A, B, C, D, E, F |
| MW-2S-20240508 | N | 405176-01 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-12D-20240508 | N | 405176-02 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-21D-20240508 | N | 405176-03 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-8S-20240508 | N | 405176-04 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-6S-20240508 | N | 405176-05 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-17D-20240508 | N | 405176-06 | 05/08/2024 | WG | A, B, C, D, E, F |
| FD-01-20240508 | FD | 405176-07 | 05/08/2024 | WG | A, B, C, D, E, F |
| MW-9D-20240509 | N | 405181-01 | 05/09/2024 | WG | A, B, C, D, E, F |
| MW-13D-20240509 | N | 405181-02 | 05/09/2024 | WG | A, B, C, D, E, F |
| MW-20D-20240509 | N | 405181-03 | 05/09/2024 | WG | A, B, C, D, E, F |
| MW-22D-20240509 | N | 405181-04 | 05/09/2024 | WG | A, B, C, D, E, F |
| MW-23D-20240509 | N | 405181-05 | 05/09/2024 | WG | A, B, C, D, E, F |

TABLE 2
METHOD HOLDING TIMES
HNA WHIDBEY MARINE

| Method Holding Times | | | |
|----------------------|-------------|---|---|
| A | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid preserved 7 days for liquid unpreserved |
| B | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid preserved 7 days for liquid unpreserved |
| C | SM2540D | Total Suspended Solids | 7 days unpreserved |
| D | SW6020B | Metals | 180 days for liquid preserved |
| E | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid preserved 7 days for liquid unpreserved |
| F | SW8270E | Semivolatile Organic Compounds (SVOCs) | 7 days extraction / 40 days analysis for liquid unpreserved |
| G | E300 | Inorganic Anions (Chloride, Sulfate) | 28 days for liquid unpreserved |
| | | Inorganic Anions (Nitrate, Nitrite) | 48 hours for liquid unpreserved |
| H | SM2320B | Alkalinity | 14 days for liquid unpreserved |
| I | RSK175 | Dissolved Gases | 14 days for liquid preserved 7 days for liquid unpreserved |
| | | | |
| J | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid preserved |
| K | SM5310C | Total Organic Carbon | 28 days for liquid preserved |
| L | SM4500-S2-D | TOTAL SULFIDES | 7 days for liquid preserved |

TABLE 3
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Basis | Sample ID | Lab ID | Analyte | Fraction | Reportable Result | Reported Result | Validated Result | Reason for Qualifier |
|--------|-------------|-------|-----------------|--------------|------------------------|----------|-------------------|-----------------|------------------|----------------------|
| 405142 | E300 | NA | MW-19D-20240507 | 2405160-001A | Nitrate (as N) | N | Yes | 34.4 | 34.4 J+ | HTQ |
| 405142 | E300 | NA | MW-19D-20240507 | 2405160-001A | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 405142 | SM4500-NH3G | NA | MW-19D-20240507 | 2405160-001B | Ammonia | N | Yes | U | R | MSD |
| 405142 | E300 | NA | MW-4S-20240507 | 2405160-002A | Nitrate (as N) | N | Yes | 0.426 | 0.426 J+ | HTQ |
| 405142 | E300 | NA | MW-4S-20240507 | 2405160-002A | Nitrite (as N) | N | Yes | 0.424 | 0.424 J+ | HTQ |
| 405142 | SM4500-NH3G | NA | MW-4S-20240507 | 2405160-002B | Ammonia | N | Yes | U | R | MSD |
| 405181 | SM4500-NH3G | NA | MW-9D-20240509 | 2405200-001D | Ammonia | N | Yes | U | R | MSD |
| 405181 | SM4500-NH3G | NA | MW-22D-20240509 | 2405200-002D | Ammonia | N | Yes | U | R | MSD |
| 405181 | SM4500-NH3G | NA | MW-23D-20240509 | 2405200-003D | Ammonia | N | Yes | U | R | MSD |
| 405176 | SM4500-NH3G | NA | MW-12D-20240508 | 2405202-001D | Ammonia | N | Yes | U | R | MSD |
| 405176 | E300 | NA | MW-21D-20240508 | 2405202-002B | Nitrate (as N) | N | Yes | 1.52 | 1.52 J+ | HTQ |
| 405176 | E300 | NA | MW-21D-20240508 | 2405202-002B | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 405176 | SM4500-NH3G | NA | MW-21D-20240508 | 2405202-002D | Ammonia | N | Yes | U | R | MSD |
| 405176 | E300 | NA | MW-8S-20240508 | 2405202-003B | Nitrate (as N) | N | Yes | 3.96 | 3.96 J+ | HTQ |
| 405176 | E300 | NA | MW-8S-20240508 | 2405202-003B | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 405176 | SM4500-NH3G | NA | MW-8S-20240508 | 2405202-003D | Ammonia | N | Yes | U | R | MSD |
| 405176 | SM4500-NH3G | NA | MW-17D-20240508 | 2405202-004D | Ammonia | N | Yes | U | R | MSD |
| 405176 | E300 | NA | FD-01-20240508 | 2405202-005B | Nitrate (as N) | N | Yes | 1.52 | 1.52 J+ | HTQ |
| 405176 | E300 | NA | FD-01-20240508 | 2405202-005B | Nitrite (as N) | N | Yes | U | UJ | HTQ |
| 405176 | SM4500-NH3G | NA | FD-01-20240508 | 2405202-005D | Ammonia | N | Yes | U | R | MSD |
| 405142 | SW6020B | NA | MW-19D-20240507 | 405142-01 | Arsenic | D | Yes | 11 | 11 J- | MSD |
| 405142 | SW6020B | NA | MW-19D-20240507 | 405142-01 | Arsenic | T | Yes | 12 | 12 J- | MSD |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | 2-Methylnaphthalene | N | No | 46 | 46 | EXE |
| 405142 | SW6020B | NA | MW-4S-20240507 | 405142-02 | Arsenic | D | Yes | 1.8 | 1.8 J- | MSD |
| 405142 | SW6020B | NA | MW-4S-20240507 | 405142-02 | Arsenic | T | Yes | 1.8 | 1.8 J- | MSD |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Benzo(a)anthracene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Benzo(a)pyrene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Benzo(b)fluoranthene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Benzo(g,h,i)perylene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Benzo(k)fluoranthene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Chrysene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Dibenz(a,h)anthracene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Indeno(1,2,3-cd)pyrene | N | No | U | U | ARA |
| 405142 | SW8270E | NA | MW-4S-20240507 | 405142-02 | Pyrene | N | No | U | U | ARA |
| 405176 | SW6020B | NA | MW-2S-20240508 | 405176-01 | Arsenic | D | Yes | 2.3 | 2.3 J- | MSD |
| 405176 | SW6020B | NA | MW-2S-20240508 | 405176-01 | Arsenic | T | Yes | 2.5 | 2.5 J- | MSD |
| 405176 | SW6020B | NA | MW-12D-20240508 | 405176-02 | Arsenic | D | No | 29 | 29 | ARA |
| 405176 | SW6020B | NA | MW-12D-20240508 | 405176-02 | Arsenic | T | Yes | 31 | 31 J- | MSD |
| 405176 | SW8270E | NA | MW-12D-20240508 | 405176-02 | Naphthalene | N | No | 340 | 340 | EXE |
| 405176 | SW6020B | NA | MW-21D-20240508 | 405176-03 | Arsenic | T | Yes | 1.9 | 1.9 J- | MSD |
| 405176 | SW6020B | NA | MW-21D-20240508 | 405176-03 | Arsenic | D | Yes | 1.7 | 1.7 J- | MSD |
| 405176 | SW8270E | NA | MW-21D-20240508 | 405176-03 | Naphthalene | N | Yes | U | UJ | FDP |
| 405176 | SW6020B | NA | MW-8S-20240508 | 405176-04 | Arsenic | T | Yes | 3.7 | 3.7 J- | MSD |
| 405176 | SW6020B | NA | MW-8S-20240508 | 405176-04 | Arsenic | D | Yes | 3.3 | 3.3 J- | MSD |
| 405176 | SW6020B | NA | MW-6S-20240508 | 405176-05 | Arsenic | T | Yes | U | UJ | MSD |
| 405176 | SW6020B | NA | MW-6S-20240508 | 405176-05 | Arsenic | D | Yes | 1.3 | 1.3 J- | MSD |
| 405176 | SW6020B | NA | MW-17D-20240508 | 405176-06 | Arsenic | D | No | 28 | 28 | ARA |
| 405176 | SW6020B | NA | MW-17D-20240508 | 405176-06 | Arsenic | T | Yes | 28 | 28 J- | MSD |
| 405176 | SW6020B | NA | FD-01-20240508 | 405176-07 | Arsenic | T | Yes | 1.5 | 1.5 J- | MSD |

TABLE 3
SYSTEM PERFORMANCE SUMMARY
HNA WHIDBEY MARINE

| SDG | Method | Basis | Sample ID | Lab ID | Analyte | Fraction | Reportable Result | Reported Result | Validated Result | Reason for Qualifier |
|--------|---------|-------|-----------------|-----------|---------------------|----------|-------------------|-----------------|------------------|----------------------|
| 405176 | SW6020B | NA | FD-01-20240508 | 405176-07 | Arsenic | D | Yes | 1.7 | 1.7 J- | MSD |
| 405176 | SW8270E | NA | FD-01-20240508 | 405176-07 | Naphthalene | N | Yes | 0.47 | 0.47 J | FDP |
| 405181 | SW6020B | NA | MW-9D-20240509 | 405181-01 | Arsenic | D | No | 22 | 22 | ARA |
| 405181 | SW6020B | NA | MW-9D-20240509 | 405181-01 | Arsenic | T | Yes | 35 | 35 J- | MSD |
| 405181 | SW8270E | NA | MW-9D-20240509 | 405181-01 | Naphthalene | N | No | 170 | 170 | EXE |
| 405181 | SW6020B | NA | MW-13D-20240509 | 405181-02 | Arsenic | D | No | 8 | 8 | ARA |
| 405181 | SW6020B | NA | MW-13D-20240509 | 405181-02 | Arsenic | T | Yes | 9.6 | 9.6 J- | MSD |
| 405181 | SW8270E | NA | MW-13D-20240509 | 405181-02 | Naphthalene | N | No | 70 | 70 | EXE |
| 405181 | SW6020B | NA | MW-20D-20240509 | 405181-03 | Arsenic | D | Yes | 2.1 | 2.1 J- | MSD |
| 405181 | SW6020B | NA | MW-20D-20240509 | 405181-03 | Arsenic | T | Yes | 4.7 | 4.7 J- | MSD |
| 405181 | SW6020B | NA | MW-22D-20240509 | 405181-04 | Arsenic | T | Yes | 1.5 | 1.5 J- | MSD |
| 405181 | SW6020B | NA | MW-22D-20240509 | 405181-04 | Arsenic | D | Yes | 1.1 | 1.1 J- | MSD |
| 405181 | SW8270E | NA | MW-23D-20240509 | 405181-05 | 2-Methylnaphthalene | N | No | 80 | 80 | EXE |
| 405181 | SW6020B | NA | MW-23D-20240509 | 405181-05 | Arsenic | D | No | 14 | 14 | ARA |
| 405181 | SW6020B | NA | MW-23D-20240509 | 405181-05 | Arsenic | T | Yes | 17 | 17 J- | MSD |
| 405181 | SW8270E | NA | MW-23D-20240509 | 405181-05 | Naphthalene | N | No | 270 | 270 | EXE |

Notes:
FDP = Field duplicate qualifier due to an exceedance of the specified limits.
HTQ = Holding time exceedance.
EXE = Result exceeds the calibration range.
ARA = Another more viable result is available, whether due to dilution, resampling, etc.
MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.
UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
U = The compound was analyzed for but not detected.
R = The sample results were rejected as unusable; the compound may or may not be present in the sample.
J- = The result is an estimated quantity, but the result may be biased low.
J+ = The result is an estimated quantity, but the result may be biased high.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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May 20, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on May 8, 2024 from the Whidbey Marine 0204475-001, F&BI 405142 project. There are 27 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0520R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 8, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine, F&BI 405142 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 405142 -01 | MW-19D |
| 405142 -02 | MW-4S |

The samples were sent to Alliance for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analysis. The report is enclosed.

The 8260D acetone calibration standard exceeded the acceptance criteria. The compound was not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

An 8270E internal standard failed the acceptance criteria for sample MW-4S. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

Date Extracted: 05/10/24

Date Analyzed: 05/10/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-19D 405142-01 | <100 | 96 |
| MW-4S 405142-02 1/10 | 15,000 | 98 |
| Method Blank 04-886 MB | <100 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

Date Extracted: 05/09/24

Date Analyzed: 05/09/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|--|---|---|
| MW-19D 405142-01 | 57 x | <250 | 122 |
| MW-4S 405142-02 | 2,100 x | <250 | 122 |
| Method Blank 04-1126 MB | <50 | <250 | 112 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/14/24 | Lab ID: | 405142-01 |
| Date Analyzed: | 05/14/24 | Data File: | 051433.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 78 | 126 |
| Toluene-d8 | 102 | 84 | 115 |
| 4-Bromofluorobenzene | 100 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/14/24 | Lab ID: | 405142-02 1/10 |
| Date Analyzed: | 05/14/24 | Data File: | 051434.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 102 | 84 | 115 |
| 4-Bromofluorobenzene | 92 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <10 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | <10 |
| Acetone | <500 k | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | <20 |
| Hexane | 160 | o-Xylene | <10 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 120 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 240 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 470 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 1,700 |
| Benzene | <3.5 | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | <10 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/14/24 | Lab ID: | 04-1084 mb |
| Date Analyzed: | 05/14/24 | Data File: | 051409.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 102 | 84 | 115 |
| 4-Bromofluorobenzene | 98 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/10/24 | Lab ID: | 405142-01 |
| Date Analyzed: | 05/13/24 | Data File: | 051307.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 87 | 11 | 173 |
| 2-Fluorobiphenyl | 86 | 25 | 128 |
| 2,4,6-Tribromophenol | 77 | 10 | 140 |
| Terphenyl-d14 | 98 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/10/24 | Lab ID: | 405142-02 |
| Date Analyzed: | 05/13/24 | Data File: | 051308.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 60 | 11 | 173 |
| 2-Fluorobiphenyl | 70 | 25 | 128 |
| 2,4,6-Tribromophenol | 85 | 10 | 140 |
| Terphenyl-d14 | 84 J | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 1.1 |
| 2-Methylnaphthalene | 46 ve |
| 1-Methylnaphthalene | 31 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.11 |
| Fluorene | 0.14 |
| Phenanthrene | 0.12 |
| Anthracene | 0.037 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 J |
| Benz(a)anthracene | <0.02 J |
| Chrysene | <0.02 J |
| Benzo(a)pyrene | <0.02 J |
| Benzo(b)fluoranthene | <0.02 J |
| Benzo(k)fluoranthene | <0.02 J |
| Indeno(1,2,3-cd)pyrene | <0.02 J |
| Dibenz(a,h)anthracene | <0.02 J |
| Benzo(g,h,i)perylene | <0.02 J |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-----------------------------|
| Client Sample ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/10/24 | Lab ID: | 405142-02 1/10 |
| Date Analyzed: | 05/14/24 | Data File: | 051412.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 61 d | 15 | 144 |
| 2-Fluorobiphenyl | 65 d | 25 | 128 |
| 2,4,6-Tribromophenol | 91 d | 10 | 142 |
| Terphenyl-d14 | 86 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| 2-Methylnaphthalene | 69 |
| Pyrene | <0.2 |
| Benz(a)anthracene | <0.2 |
| Chrysene | <0.2 |
| Benzo(a)pyrene | <0.2 |
| Benzo(b)fluoranthene | <0.2 |
| Benzo(k)fluoranthene | <0.2 |
| Indeno(1,2,3-cd)pyrene | <0.2 |
| Dibenz(a,h)anthracene | <0.2 |
| Benzo(g,h,i)perylene | <0.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-----------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/10/24 | Lab ID: | 04-1127 mb |
| Date Analyzed: | 05/11/24 | Data File: | 051041.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 15 | 144 |
| 2-Fluorobiphenyl | 80 | 25 | 128 |
| 2,4,6-Tribromophenol | 49 | 10 | 142 |
| Terphenyl-d14 | 102 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | 405142-01 |
| Date Analyzed: | 05/12/24 | Data File: | 405142-01.107 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 12 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | 405142-02 |
| Date Analyzed: | 05/15/24 | Data File: | 405142-02.184 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.8 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | I4-375 mb |
| Date Analyzed: | 05/09/24 | Data File: | I4-375 mb.136 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-19D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | 405142-01 |
| Date Analyzed: | 05/15/24 | Data File: | 405142-01.181 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | 11 |
| Lead | <1 |
| Manganese | 42 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | 405142-02 |
| Date Analyzed: | 05/12/24 | Data File: | 405142-02.106 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.8 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-----------------------------|
| Client ID: | MW-4S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/08/24 | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | 405142-02 x10 |
| Date Analyzed: | 05/16/24 | Data File: | 405142-02 x10.063 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 500 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-----------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine, F&BI 405142 |
| Date Extracted: | 05/09/24 | Lab ID: | I4-375 mb |
| Date Analyzed: | 05/09/24 | Data File: | I4-375 mb.136 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

Date Extracted: 05/13/24

Date Analyzed: 05/14/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-19D 405142-01 | 62 |
| MW-4S 405142 -02 | <5 |
| Method Blank I4-0395 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 405142-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 110 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 96 | 104 | 65-151 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 405234-03 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 101 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 91 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 97 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 104 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 65 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 100 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 109 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 99 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | 1.4 | 95 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 80 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 105 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 95 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 95 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 97 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 99 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 94 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 97 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 91 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 87 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 109 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 100 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 101 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 100 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 103 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 99 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 101 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 102 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 100 | 102 | 46-206 | 2 |
| Chloromethane | ug/L (ppb) | 10 | 88 | 92 | 59-132 | 4 |
| Vinyl chloride | ug/L (ppb) | 10 | 92 | 95 | 64-142 | 3 |
| Bromomethane | ug/L (ppb) | 10 | 107 | 102 | 50-197 | 5 |
| Chloroethane | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 100 | 102 | 51-159 | 2 |
| Acetone | ug/L (ppb) | 50 | 73 | 70 | 10-140 | 4 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 94 | 94 | 64-140 | 0 |
| Hexane | ug/L (ppb) | 10 | 90 | 94 | 54-136 | 4 |
| Methylene chloride | ug/L (ppb) | 10 | 93 | 93 | 43-134 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 93 | 70-130 | 1 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 89 | 89 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 105 | 101 | 64-148 | 4 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| Chloroform | ug/L (ppb) | 10 | 91 | 93 | 70-130 | 2 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 78 | 80 | 47-112 | 3 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 96 | 97 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 99 | 100 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 90 | 92 | 70-130 | 2 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| Benzene | ug/L (ppb) | 10 | 94 | 95 | 70-130 | 1 |
| Trichloroethene | ug/L (ppb) | 10 | 93 | 94 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 86 | 85 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 96 | 93 | 70-130 | 3 |
| Dibromomethane | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 101 | 97 | 68-130 | 4 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 93 | 69-131 | 0 |
| Toluene | ug/L (ppb) | 10 | 93 | 95 | 70-130 | 2 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 91 | 89 | 70-130 | 2 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 88 | 90 | 70-130 | 2 |
| 2-Hexanone | ug/L (ppb) | 50 | 85 | 87 | 45-138 | 2 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 85 | 90 | 70-130 | 6 |
| Tetrachloroethene | ug/L (ppb) | 10 | 105 | 105 | 70-130 | 0 |
| Dibromochloromethane | ug/L (ppb) | 10 | 94 | 98 | 60-148 | 4 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 97 | 100 | 70-130 | 3 |
| Chlorobenzene | ug/L (ppb) | 10 | 90 | 91 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 96 | 98 | 70-130 | 2 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| m,p-Xylene | ug/L (ppb) | 20 | 97 | 98 | 70-130 | 1 |
| o-Xylene | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| Styrene | ug/L (ppb) | 10 | 91 | 93 | 70-130 | 2 |
| Isopropylbenzene | ug/L (ppb) | 10 | 94 | 95 | 70-130 | 1 |
| Bromoform | ug/L (ppb) | 10 | 97 | 99 | 69-138 | 2 |
| n-Propylbenzene | ug/L (ppb) | 10 | 87 | 91 | 70-130 | 4 |
| Bromobenzene | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 87 | 94 | 70-130 | 8 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 94 | 100 | 70-130 | 6 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 89 | 93 | 70-130 | 4 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 89 | 90 | 70-130 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 90 | 92 | 70-130 | 2 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 88 | 92 | 70-130 | 4 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 91 | 92 | 70-130 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 91 | 95 | 70-130 | 4 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 96 | 100 | 70-130 | 4 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 94 | 95 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 94 | 98 | 70-130 | 4 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 86 | 95 | 70-130 | 10 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 88 | 93 | 70-130 | 6 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 93 | 95 | 70-130 | 2 |
| Naphthalene | ug/L (ppb) | 10 | 85 | 86 | 70-130 | 1 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 86 | 92 | 70-130 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 405126-08 1/0.25 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 2.5 | <0.05 | 59 | 55 | 42-104 | 7 |
| 2-Methylnaphthalene | ug/L (ppb) | 2.5 | <0.05 | 65 | 59 | 50-150 | 10 |
| 1-Methylnaphthalene | ug/L (ppb) | 2.5 | 0.069 | 65 | 59 | 42-117 | 10 |
| Acenaphthylene | ug/L (ppb) | 2.5 | 0.018 | 71 | 68 | 50-150 | 4 |
| Acenaphthene | ug/L (ppb) | 2.5 | 4.5 | 71 b | 46 b | 50-150 | 43 b |
| Fluorene | ug/L (ppb) | 2.5 | 0.69 | 74 | 69 | 50-150 | 7 |
| Phenanthrene | ug/L (ppb) | 2.5 | 0.029 | 70 | 72 | 50-150 | 3 |
| Anthracene | ug/L (ppb) | 2.5 | 0.013 | 72 | 73 | 50-150 | 1 |
| Fluoranthene | ug/L (ppb) | 2.5 | 0.015 | 76 | 78 | 50-150 | 3 |
| Pyrene | ug/L (ppb) | 2.5 | 0.020 | 93 | 91 | 50-150 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 2.5 | <0.005 | 86 | 88 | 50-150 | 2 |
| Chrysene | ug/L (ppb) | 2.5 | <0.005 | 84 | 85 | 50-150 | 1 |
| Benzo(a)pyrene | ug/L (ppb) | 2.5 | <0.005 | 94 | 92 | 50-150 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 2.5 | <0.005 | 98 | 92 | 50-150 | 6 |
| Benzo(k)fluoranthene | ug/L (ppb) | 2.5 | <0.005 | 95 | 93 | 50-150 | 2 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 2.5 | <0.005 | 89 | 96 | 50-150 | 8 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 2.5 | <0.005 | 85 | 90 | 50-150 | 6 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 2.5 | <1 | 83 | 91 | 50-150 | 9 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 72 | 73 | 50-104 | 1 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 72 | 73 | 52-113 | 1 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 73 | 74 | 51-115 | 1 |
| Acenaphthylene | ug/L (ppb) | 10 | 82 | 87 | 60-114 | 6 |
| Acenaphthene | ug/L (ppb) | 10 | 77 | 81 | 57-110 | 5 |
| Fluorene | ug/L (ppb) | 10 | 83 | 85 | 61-115 | 2 |
| Phenanthrene | ug/L (ppb) | 10 | 82 | 86 | 63-113 | 5 |
| Anthracene | ug/L (ppb) | 10 | 83 | 86 | 65-117 | 4 |
| Fluoranthene | ug/L (ppb) | 10 | 88 | 91 | 68-121 | 3 |
| Pyrene | ug/L (ppb) | 10 | 94 | 97 | 62-133 | 3 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 93 | 96 | 66-131 | 3 |
| Chrysene | ug/L (ppb) | 10 | 93 | 97 | 66-129 | 4 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 97 | 103 | 66-129 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 97 | 103 | 55-144 | 6 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 96 | 101 | 58-139 | 5 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 93 | 101 | 62-136 | 8 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 96 | 101 | 55-146 | 5 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 99 | 105 | 58-137 | 6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 405144-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 96 | 99 | 75-125 | 3 |
| Lead | ug/L (ppb) | 10 | <1 | 84 | 83 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 93 | 80-120 |
| Lead | ug/L (ppb) | 10 | 101 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 405144-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 96 | 99 | 75-125 | 3 |
| Lead | ug/L (ppb) | 10 | <1 | 84 | 83 | 75-125 | 1 |
| Manganese | ug/L (ppb) | 20 | 852 | 0 b | 150 | 75-125 | 200 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 93 | 80-120 |
| Lead | ug/L (ppb) | 10 | 101 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 101 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/24

Date Received: 05/08/24

Project: Whidbey Marine, F&BI 405142

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 405142-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | Mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 102 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

405142

SAMPLE CHAIN OF CUSTODY

ME 05-08-24

Page # 1 of 1 K3


Report To H. Good, U. Pehlivan

Company Haley & Aldrich

Address _____

City, State, ZIP _____



Phone _____ Email _____

| | | | |
|--|--|--------------|------|
| SAMPLERS (signature)  | | PROJECT NAME | PO # |
| REMARKS <u>Whitby Marine</u> | | INVOICE TO | |
| Project specific RLS? - Yes / No | | | |

| | |
|---|--|
| TURNAROUND TIME <u>W/2</u> | |
| <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH <u>F2</u> Rush charges authorized by: _____ | |
| SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days | |

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | ANALYSES REQUESTED | | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---------------|------------|---------------|---------------|---------------|-------------------|
| | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX EPA 8021 | NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | PCBs EPA 8082 | |
| MW-19D-W | 01A-Q | 5/7/24 | 1420 | W | 17 | X | X | | | X | X | | reports MW-19D |
| MW-45 | 021 | ↓ | 1300 | W | 17 | X | X | | | X | X | | Geochem |
| | | | | | | | | | | | | | Geochem: |
| | | | | | | | | | | | | | ammonia, albedin |
| | | | | | | | | | | | | | Sulfide, ME E |
| | | | | | | | | | | | | | TOC, dis. ferrous |
| | | | | | | | | | | | | | MA. |
| | | | | | | | | | | | | | MW-15-A5 Pb |

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| | | | | | | | | | |
|--|--|----------------|--|---------|--|--------|--|-------|--|
| SIGNATURE | | PRINT NAME | | COMPANY | | DATE | | TIME | |
| Relinquished by:  | | Andrew Dalekha | | HA | | 5/8/24 | | 0710 | |
| Received by:  | | VIN H | | FB | | 5-8-24 | | 11:30 | |
| Relinquished by: | | | | | | | | | |
| Received by: | | | | | | | | | |

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 405142 CLIENT H & N A INITIALS/ NP 5/8/24
DATE: _____

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature _____ °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

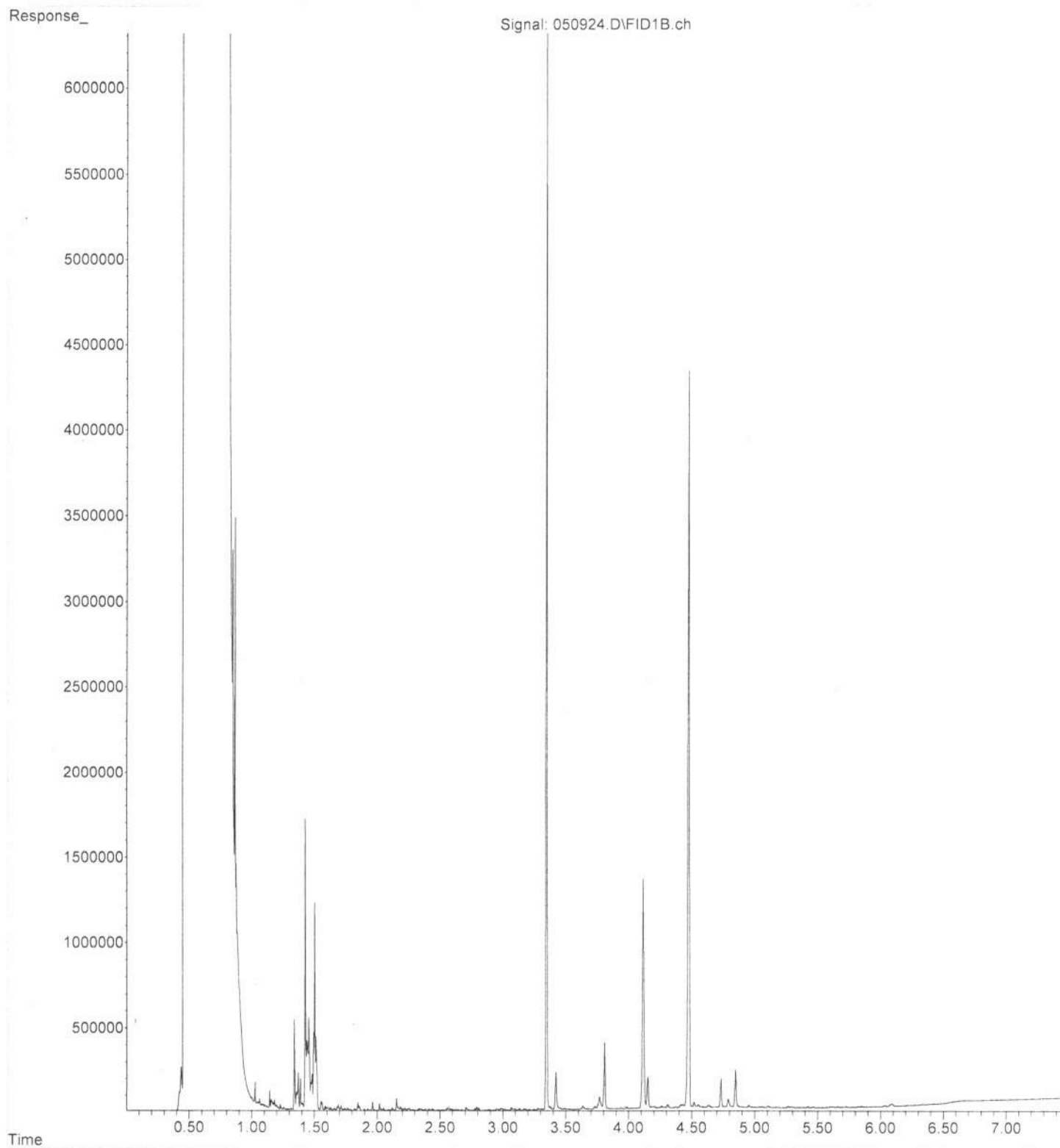
| | | |
|--------------------|--|---|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| # of Containers | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | _____ |

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☒ NO
Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

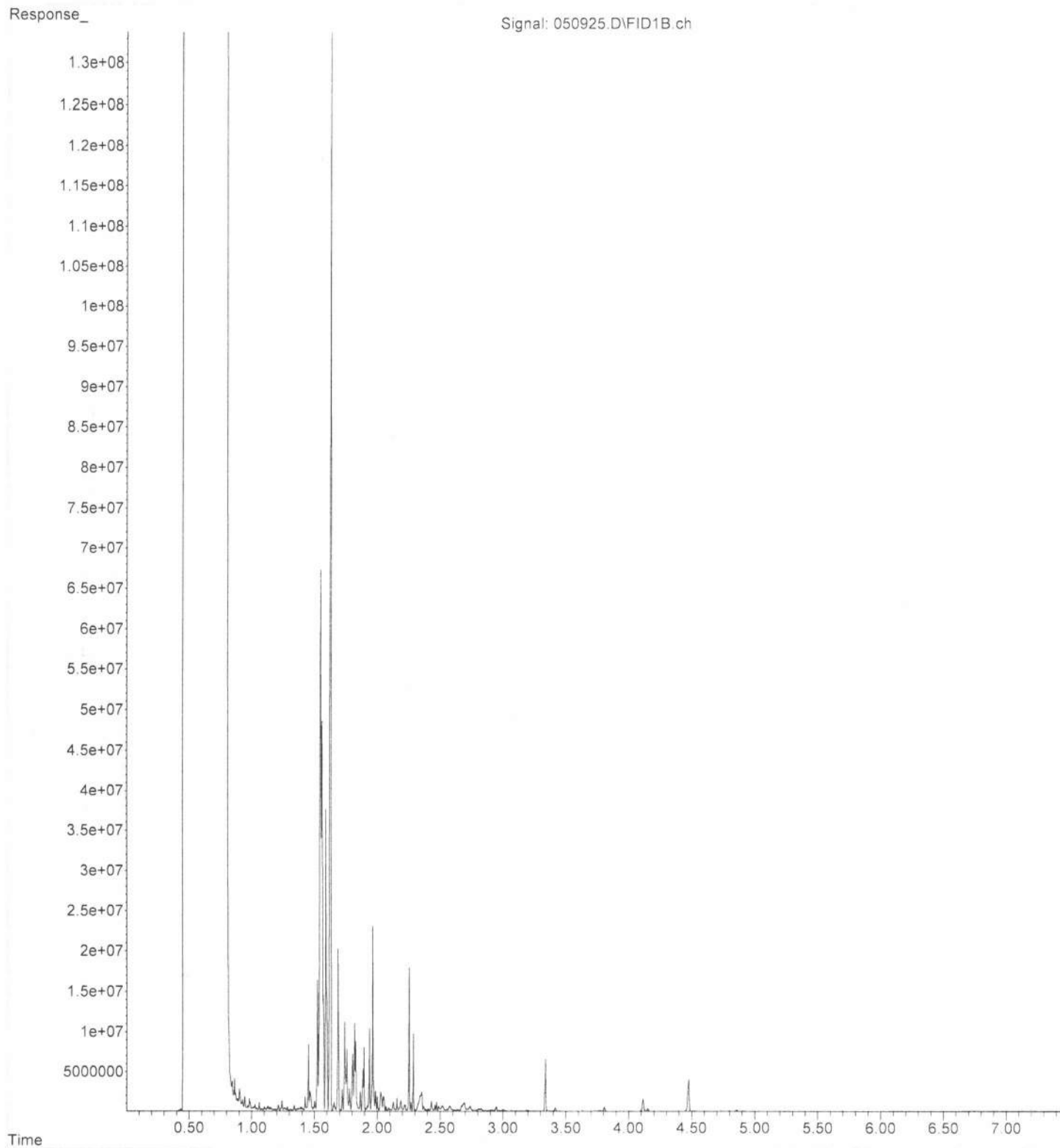
File : P:\Proc_GC14\05-09-24\050924.D
Operator : TL
Acquired : 09 May 2024 05:20 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405142-01
Misc Info :
Vial Number: 24

ERR



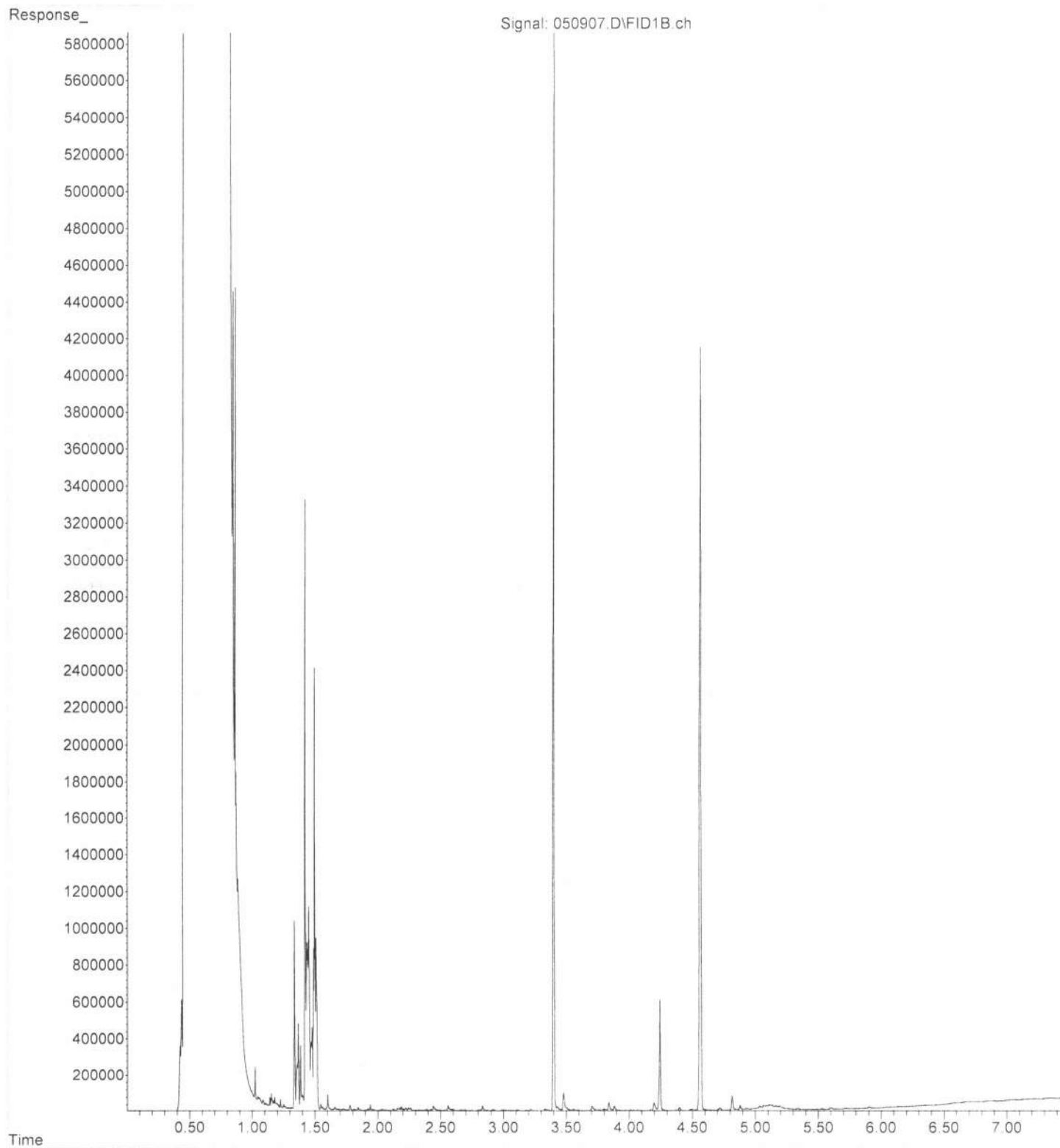
File : P:\Proc_GC14\05-09-24\050925.D
Operator : TL
Acquired : 09 May 2024 05:32 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405142-02
Misc Info :
Vial Number: 25

ERR



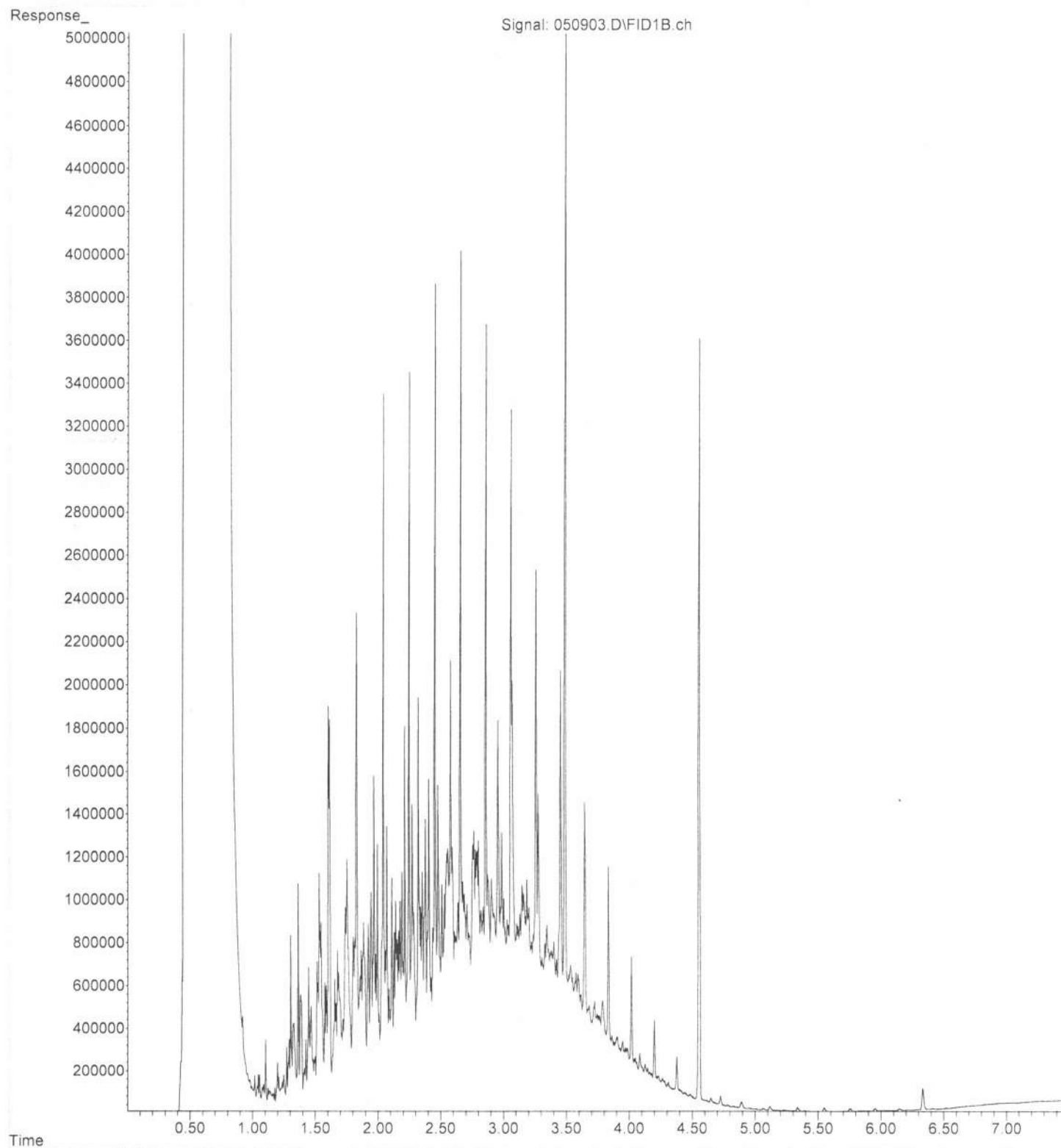
File :P:\Proc_GC14\05-09-24\050907.D
Operator : TL
Acquired : 09 May 2024 01:57 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 04-1126 mb
Misc Info :
Vial Number: 9

ERR



File : P:\Proc_GC14\05-09-24\050903.D
Operator : TL
Acquired : 09 May 2024 08:33 am using AcqMethod DX.M
Instrument : GC14
Sample Name: 500 Dx 71-40G
Misc Info :
Vial Number: 3

ERR





3600 Fremont Ave N
Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 405142, E-176

Work Order Number: 2405160

May 16, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 2 sample(s) on 5/8/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by SM 2320B

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



www.fremontanalytical.com



Date: 05/16/2024

CLIENT: Friedman & Bruya
Project: 405142
Work Order: 2405160

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2405160-001 | MW-19D | 05/07/2024 2:20 PM | 05/08/2024 1:09 PM |
| 2405160-002 | MW-4S | 05/07/2024 1:00 PM | 05/08/2024 1:09 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 405142

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 405142

Lab ID: 2405160-001

Collection Date: 5/7/2024 2:20:00 PM

Client Sample ID: MW-19D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R91756 Analyst: CO

| | | | | | | |
|---------|---------|---------|--|------|---|----------------------|
| Methane | 0.00690 | 0.00500 | | mg/L | 1 | 5/15/2024 1:58:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/15/2024 1:58:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/15/2024 1:58:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 43905 Analyst: FG

| | | | | | | |
|----------------|------|-------|----|------|----|----------------------|
| Chloride | 30.9 | 2.00 | D | mg/L | 10 | 5/14/2024 1:59:00 AM |
| Nitrite (as N) | ND | 0.200 | H | mg/L | 1 | 5/9/2024 6:16:00 PM |
| Nitrate (as N) | 34.4 | 2.00 | DH | mg/L | 10 | 5/14/2024 1:59:00 AM |
| Sulfate | 25.8 | 1.00 | | mg/L | 1 | 5/14/2024 1:12:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R91680 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 1.47 | 0.700 | | mg/L | 1 | 5/14/2024 9:06:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R91692 Analyst: NR

| | | | | | | |
|---|-----|------|--|------|---|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 140 | 2.50 | | mg/L | 1 | 5/14/2024 12:01:00 PM |
|---|-----|------|--|------|---|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 43897 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 11:36:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R91640 Analyst: SS

| | | | | | | |
|---------|-------|--------|--|------|---|----------------------|
| Sulfide | 0.178 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |
|---------|-------|--------|--|------|---|----------------------|

CLIENT: Friedman & Bruya
Project: 405142

Lab ID: 2405160-002

Collection Date: 5/7/2024 1:00:00 PM

Client Sample ID: MW-4S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R91756 Analyst: CO

| | | | | | | |
|---------|---------|---------|--|------|---|----------------------|
| Methane | 0.00887 | 0.00500 | | mg/L | 1 | 5/15/2024 1:59:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/15/2024 1:59:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/15/2024 1:59:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 43905 Analyst: FG

| | | | | | | |
|----------------|-------|-------|---|------|----|----------------------|
| Chloride | 21.7 | 2.00 | D | mg/L | 10 | 5/14/2024 2:22:00 AM |
| Nitrite (as N) | 0.424 | 0.200 | H | mg/L | 1 | 5/9/2024 5:48:00 PM |
| Nitrate (as N) | 0.426 | 0.200 | H | mg/L | 1 | 5/9/2024 5:48:00 PM |
| Sulfate | 11.4 | 1.00 | | mg/L | 1 | 5/14/2024 1:35:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R91575 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|----------------------|
| Total Organic Carbon | 3.36 | 0.700 | | mg/L | 1 | 5/9/2024 11:49:00 PM |
|----------------------|------|-------|--|------|---|----------------------|

Total Alkalinity by SM 2320B

Batch ID: R91692 Analyst: NR

| | | | | | | |
|---|-----|------|--|------|---|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 128 | 2.50 | | mg/L | 1 | 5/14/2024 12:01:00 PM |
|---|-----|------|--|------|---|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 43897 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 11:41:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R91640 Analyst: SS

| | | | | | | |
|---------|--------|--------|--|------|---|----------------------|
| Sulfide | 0.0641 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |
|---------|--------|--------|--|------|---|----------------------|

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-R91692 | SampType: MBLK | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91692 | | | | | | | |
| Client ID: MBLKW | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | SeqNo: 1912530 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-R91692 | SampType: LCS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91692 | | | | | | | |
| Client ID: LCSW | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | SeqNo: 1912531 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 107 | 2.50 | 100.0 | 0 | 107 | 89.7 | 129.7 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-002ADUP | SampType: DUP | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91692 | | | | | | | |
| Client ID: MW-4S | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | SeqNo: 1912534 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 131 | 2.50 | | | | | | 127.8 | 2.19 | 20 | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-43897 | | SampType: MBLK | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: MBLKW | | Batch ID: 43897 | | Analysis Date: 5/14/2024 | | | | | | SeqNo: 1912150 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: LCS-43897 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: LCSW | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912151 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.458 0.150 0.5000 0 91.6 83.7 113.7

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405136-001BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912153 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405136-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912154 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405136-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912155 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 0 30 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405202-003DDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | | SeqNo: 1912168 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2405202-003DMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912169 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | 0.5000 | 0 | 0 | 12.2 | 150 | | | | S | |

NOTES:

S - Spike recovery indicates a possible matrix effect.

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-43864 | SampType: MBLK | Units: mg/L | | | Prep Date: 5/9/2024 | | | RunNo: 91597 | | | |
| Client ID: MBLKW | Batch ID: 43864 | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910534 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405160-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 5/9/2024 | | | RunNo: 91597 | | |
| Client ID: MW-19D | | Batch ID: 43864 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910541 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 22.4 | 0.200 | | | | | | 22.36 | 0.143 | 20 | E |

| Sample ID: 2405160-001AMS | SampType: MS | Units: mg/L | | | Prep Date: 5/9/2024 | | | RunNo: 91597 | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|--------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-19D | Batch ID: 43864 | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910542 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.697 | 0.200 | 0.7500 | 0 | 92.9 | 80 | 120 | | | | |
| Nitrate (as N) | 22.6 | 0.200 | 0.7500 | 22.36 | 38.0 | 80 | 120 | | | | ES |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|----------------------------|--------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405160-001AMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 5/9/2024 | | | RunNo: 91597 | | |
| Client ID: MW-19D | | Batch ID: 43864 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910543 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.711 | 0.200 | 0.7500 | 0 | 94.8 | 80 | 120 | 0.6970 | 1.99 | 20 | |
| Nitrate (as N) | 22.7 | 0.200 | 0.7500 | 22.36 | 40.4 | 80 | 120 | 22.65 | 0.0795 | 20 | ES |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|--------------------------------|----------|----------------------------|-------------|-----------------------|----------|------|
| Sample ID: LCS-43864 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/9/2024 | | RunNo: 91597 | | |
| Client ID: LCSW | | Batch ID: 43864 | | | Analysis Date: 5/9/2024 | | | | SeqNo: 1910544 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrite (as N) | 0.691 | 0.200 | 0.7500 | 0 | 92.1 | 90 | 110 | | | | |
| Nitrate (as N) | 0.712 | 0.200 | 0.7500 | 0 | 94.9 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-43905 | SampType: LCS | Units: mg/L | | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | | |
| Client ID: LCSW | Batch ID: 43905 | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912049 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.729 | 0.200 | 0.7500 | 0 | 97.2 | 90 | 110 | | | | |
| Nitrate (as N) | 0.725 | 0.200 | 0.7500 | 0 | 96.7 | 90 | 110 | | | | |
| Sulfate | 3.54 | 1.00 | 3.750 | 0 | 94.4 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-43905 | SampType: MBLK | Units: mg/L | | | Prep Date: 5/13/2024 | | | | RunNo: 91669 | | |
| Client ID: MBLKW | Batch ID: 43905 | Analysis Date: 5/13/2024 | | | | | | | SeqNo: 1912051 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405118-001BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912057 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 7.47 | 0.200 | | | | | | 7.474 | 0 | 20 | E |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | 13.1 | 1.00 | | | | | | 13.28 | 1.14 | 20 | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2405118-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91669 | | | |
| Client ID: BATCH | | Batch ID: 43905 | | Analysis Date: 5/13/2024 | | | | SeqNo: 1912058 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.5 | 80 | 120 | | | | ES |
| Nitrate (as N) | 0.725 | 0.200 | 0.7500 | 0 | 96.7 | 80 | 120 | | | | |
| Sulfate | 17.1 | 1.00 | 3.750 | 13.28 | 102 | 80 | 120 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405118-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912059 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.7 | 80 | 120 | 8.070 | 0.0248 | 20 | ES |
| Nitrate (as N) | 0.727 | 0.200 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7250 | 0.275 | 20 | |
| Sulfate | 16.9 | 1.00 | 3.750 | 13.28 | 95.2 | 80 | 120 | 17.10 | 1.46 | 20 | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405200-002CDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912068 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 5.36 | 0.200 | | | | | | 5.369 | 0.0745 | 20 | |
| Nitrate (as N) | 0.977 | 0.200 | | | | | | 0.9910 | 1.42 | 20 | |
| Sulfate | 5.69 | 1.00 | | | | | | 5.716 | 0.456 | 20 | |

| Sample ID: 2405200-002CMS | SampType: MS | Units: mg/L | | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912069 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 6.01 | 0.200 | 0.7500 | 5.369 | 85.7 | 80 | 120 | | | | E |
| Nitrate (as N) | 1.73 | 0.200 | 0.7500 | 0.9910 | 98.7 | 80 | 120 | | | | |
| Sulfate | 9.26 | 1.00 | 3.750 | 5.716 | 94.5 | 80 | 120 | | | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R91640 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: MBLKW | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911464 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R91640 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: LCSW | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911465 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.190 | 0.0500 | 0.2000 | 0 | 94.9 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405116-001ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911467 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405116-001AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911468 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.240 | 0.0500 | 0.2000 | 0.04024 | 99.9 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405116-001AMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911469 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.247 | 0.0500 | 0.2000 | 0.04024 | 103 | 80 | 120 | 0.2400 | 2.72 | 20 | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|--------------------------|----------|----------------------|----------------|------|--------------|------|--|
| Sample ID: 2405211-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911496 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|---------------------------|--------|------------------|-----------|-------------|--------------------------|----------|----------------------|----------------|------|--------------|------|--|
| Sample ID: 2405211-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911497 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.190 | 0.0500 | 0.2000 | 0.01643 | 86.7 | 80 | 120 | | | | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-R91575 | SampType: MBLK | Units: mg/L | | | | Prep Date: 5/9/2024 | | | RunNo: 91575 | | |
| Client ID: MBLKW | Batch ID: R91575 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910780 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R91575 | SampType: LCS | Units: mg/L | | | | Prep Date: 5/9/2024 | | | RunNo: 91575 | | |
| Client ID: LCSW | Batch ID: R91575 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910781 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 5.10 | 0.700 | 5.000 | 0 | 102 | 90.6 | 119 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2405072-001ADUP | SampType: DUP | Units: mg/L | | | | Prep Date: 5/9/2024 | | | RunNo: 91575 | | |
| Client ID: BATCH | Batch ID: R91575 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910783 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 3.97 | 0.700 | | | | | | 3.930 | 0.987 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2405072-001AMS | SampType: MS | Units: mg/L | | | | Prep Date: 5/9/2024 | | | RunNo: 91575 | | |
| Client ID: BATCH | Batch ID: R91575 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910784 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 8.90 | 0.700 | 5.000 | 3.930 | 99.4 | 74.4 | 117 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|--------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2405072-001AMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 5/9/2024 | | | RunNo: 91575 | | |
| Client ID: BATCH | Batch ID: R91575 | | | | | Analysis Date: 5/9/2024 | | | SeqNo: 1910785 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 9.05 | 0.700 | 5.000 | 3.930 | 102 | 74.4 | 117 | 8.901 | 1.65 | 30 | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-91680 | SampType: MBLK | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MBLKW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912582 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-91680 | SampType: LCS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: LCSW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912583 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.94 | 0.700 | 5.000 | 0 | 98.7 | 90.6 | 119 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|--|
| Sample ID: 2405160-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MW-19D | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912585 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.46 | 0.700 | | | | | | 1.466 | 0.616 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMS | SampType: MS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MW-19D | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912586 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.65 | 0.700 | 5.000 | 1.466 | 104 | 74.4 | 117 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MW-19D | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912587 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.29 | 0.700 | 5.000 | 1.466 | 96.5 | 74.4 | 117 | 6.654 | 5.64 | 30 | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Sample ID: 2405211-001DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | | |
| Client ID: BATCH | Batch ID: R91680 | | | | Analysis Date: 5/15/2024 | | | SeqNo: 1912600 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 2.80 | 0.700 | | | | | | 2.807 | 0.428 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405211-001DMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | |
| Client ID: BATCH | | Batch ID: R91680 | | | Analysis Date: 5/15/2024 | | | SeqNo: 1912601 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 7.53 | 0.700 | 5.000 | 2.807 | 94.4 | 74.4 | 117 | | | | | |

Work Order: 2405160
CLIENT: Friedman & Bruya
Project: 405142

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-R91756 | | SampType: LCS | | Units: ppmv | | Prep Date: 5/15/2024 | | | RunNo: 91756 | | |
| Client ID: LCSW | | Batch ID: R91756 | | Analysis Date: 5/15/2024 | | | | | SeqNo: 1914022 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | 991 | 0.00500 | 1,000 | 0 | 99.1 | 73.6 | 124 | | | | |
| Ethene | 956 | 0.0100 | 1,000 | 0 | 95.6 | 76.3 | 122 | | | | |
| Ethane | 939 | 0.0100 | 1,000 | 0 | 93.9 | 76.1 | 123 | | | | |

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|-----------------------------|---------------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R91756 | SampType: MBLK | Units: mg/L | | | Prep Date: 5/15/2024 | | | | RunNo: 91756 | | |
| Client ID: MBLKW | Batch ID: R91756 | | | | | Analysis Date: 5/15/2024 | | | | SeqNo: 1914021 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405153-001CREP | | SampType: REP | | Units: mg/L | | Prep Date: 5/15/2024 | | | RunNo: 91756 | | |
| Client ID: BATCH | | Batch ID: R91756 | | | | | Analysis Date: 5/15/2024 | | | SeqNo: 1914008 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methane | 0.109 | 0.00500 | | | | | | 0.1085 | 0.796 | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB
Logged by: Clare Griggs

Work Order Number: 2405160
Date Received: 5/8/2024 1:09:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 6.0 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2405160

Page # 1 of 1Page # 1 of
TURNAROUND TIME
E C O I T M A M

☒ Standard TAT
PITCH

Rush charges authorized by:

SAMPLE DISPOSAL

Return samples

TURNAROUND TIME
☒ Standard TAT
 RUSH _____
 Rush charges authorized by: _____

 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

[illegible]

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

May 21, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on May 10, 2024 from the Whidbey Marine Auto 0204475-01, F&BI 405181 project. There are 46 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0521R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 10, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine Auto, F&BI 405181 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 405181 -01 | MW-9D |
| 405181 -02 | MW-13D |
| 405181 -03 | MW-20D |
| 405181 -04 | MW-22D |
| 405181 -05 | MW-23D |
| 405181 -06 | Trip Blank |

Samples MW-9D, MW-22D, and MW-23D were sent to Fremont Analytical for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D acetone and 2-butanone calibration standard did not meet the acceptance criteria. The data were flagged accordingly.

The 6020B dissolved manganese calibration standard exceeded the acceptance criteria for the method blank. The metal was not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

Date Extracted: 05/13/24

Date Analyzed: 05/14/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-9D 405181-01 1/40 | 57,000 | 85 |
| MW-13D 405181-02 1/10 | 14,000 | 80 |
| MW-20D 405181-03 | <100 | 84 |
| MW-22D 405181-04 | 160 | 85 |
| MW-23D 405181-05 1/10 | 94,000 | 89 |
| Method Blank 04-889 MB | <100 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

Date Extracted: 05/14/24

Date Analyzed: 05/15/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-9D 405181-01 1/1.2 | 4,100 x | <300 | 104 |
| MW-13D 405181-02 | 1,900 x | <250 | 115 |
| MW-20D 405181-03 1/1.2 | <60 | <300 | 102 |
| MW-22D 405181-04 | <50 | <250 | 108 |
| MW-23D 405181-05 1/1.3 | 7,000 x | <320 | 105 |
| Method Blank 04-1154 MB | <50 | <250 | 102 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-9D
 Date Received: 05/10/24
 Date Extracted: 05/16/24
 Date Analyzed: 05/16/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405181-01 1/100
 Data File: 051649.D
 Instrument: GCMS11
 Operator: IJL

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 89 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <5 j |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 2,300 |
| Acetone | <5,000 ca | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 8,600 |
| Hexane | <500 | o-Xylene | 4,200 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 150 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 370 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 ca | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 1,400 |
| Benzene | <5 j | sec-Butylbenzene | <100 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 1,800 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 530 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-13D
 Date Received: 05/10/24
 Date Extracted: 05/16/24
 Date Analyzed: 05/16/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405181-02 1/50
 Data File: 051648.D
 Instrument: GCMS11
 Operator: IJL

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 78 | 126 |
| Toluene-d8 | 103 | 84 | 115 |
| 4-Bromofluorobenzene | 91 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <50 | 1,3-Dichloropropane | <50 |
| Chloromethane | <500 | Tetrachloroethene | <5 j |
| Vinyl chloride | <1 | Dibromochloromethane | <25 |
| Bromomethane | <250 | 1,2-Dibromoethane (EDB) | <0.5 |
| Chloroethane | <50 | Chlorobenzene | <50 |
| Trichlorofluoromethane | <50 | Ethylbenzene | 620 |
| Acetone | <2,500 ca | 1,1,1,2-Tetrachloroethane | <50 |
| 1,1-Dichloroethene | <50 | m,p-Xylene | 2,600 |
| Hexane | <250 | o-Xylene | 260 |
| Methylene chloride | <250 | Styrene | <50 |
| Methyl t-butyl ether (MTBE) | <50 | Isopropylbenzene | <50 |
| trans-1,2-Dichloroethene | <50 | Bromoform | <250 |
| 1,1-Dichloroethane | <50 | n-Propylbenzene | 62 |
| 2,2-Dichloropropane | <50 | Bromobenzene | <50 |
| cis-1,2-Dichloroethene | <50 | 1,3,5-Trimethylbenzene | 140 |
| Chloroform | <50 | 1,1,2,2-Tetrachloroethane | <10 |
| 2-Butanone (MEK) | <1,000 ca | 1,2,3-Trichloropropane | <50 |
| 1,2-Dichloroethane (EDC) | <10 | 2-Chlorotoluene | <50 |
| 1,1,1-Trichloroethane | <50 | 4-Chlorotoluene | <50 |
| 1,1-Dichloropropene | <50 | tert-Butylbenzene | <50 |
| Carbon tetrachloride | <25 | 1,2,4-Trimethylbenzene | 340 |
| Benzene | <5 j | sec-Butylbenzene | <50 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <50 |
| 1,2-Dichloropropane | <50 | 1,3-Dichlorobenzene | <50 |
| Bromodichloromethane | <25 | 1,4-Dichlorobenzene | <50 |
| Dibromomethane | <50 | 1,2-Dichlorobenzene | <50 |
| 4-Methyl-2-pentanone | <500 | 1,2-Dibromo-3-chloropropane | <500 |
| cis-1,3-Dichloropropene | <20 | 1,2,4-Trichlorobenzene | <50 |
| Toluene | <50 | Hexachlorobutadiene | <25 |
| trans-1,3-Dichloropropene | <20 | Naphthalene | 140 |
| 1,1,2-Trichloroethane | <25 | 1,2,3-Trichlorobenzene | <50 |
| 2-Hexanone | <500 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-20D
 Date Received: 05/10/24
 Date Extracted: 05/16/24
 Date Analyzed: 05/16/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405181-03
 Data File: 051634.D
 Instrument: GCMS11
 Operator: IJL

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 91 | 78 | 126 |
| Toluene-d8 | 99 | 84 | 115 |
| 4-Bromofluorobenzene | 88 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 1.0 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 3.7 |
| Hexane | <5 | o-Xylene | 1.8 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-22D
Date Received: 05/10/24
Date Extracted: 05/16/24
Date Analyzed: 05/16/24
Matrix: Water
Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
Project: Whidbey Marine Auto
Lab ID: 405181-04
Data File: 051635.D
Instrument: GCMS11
Operator: IJL

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 78 | 126 |
| Toluene-d8 | 99 | 84 | 115 |
| 4-Bromofluorobenzene | 97 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 2.5 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 6.5 |
| Hexane | <5 | o-Xylene | 2.0 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 1.0 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 5.5 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-23D
 Date Received: 05/10/24
 Date Extracted: 05/16/24
 Date Analyzed: 05/17/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405181-05 1/200
 Data File: 051651.D
 Instrument: GCMS11
 Operator: IJL

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 107 | 84 | 115 |
| 4-Bromofluorobenzene | 91 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <200 | 1,3-Dichloropropane | <200 |
| Chloromethane | <2,000 | Tetrachloroethene | <5 j |
| Vinyl chloride | <4 | Dibromochloromethane | <100 |
| Bromomethane | <1,000 | 1,2-Dibromoethane (EDB) | <2 |
| Chloroethane | <200 | Chlorobenzene | <200 |
| Trichlorofluoromethane | <200 | Ethylbenzene | 2,200 |
| Acetone | <10,000 ca | 1,1,1,2-Tetrachloroethane | <200 |
| 1,1-Dichloroethene | <200 | m,p-Xylene | 7,900 |
| Hexane | <1,000 | o-Xylene | 1,900 |
| Methylene chloride | <1,000 | Styrene | <200 |
| Methyl t-butyl ether (MTBE) | <200 | Isopropylbenzene | <200 |
| trans-1,2-Dichloroethene | <200 | Bromoform | <1,000 |
| 1,1-Dichloroethane | <200 | n-Propylbenzene | <200 |
| 2,2-Dichloropropane | <200 | Bromobenzene | <200 |
| cis-1,2-Dichloroethene | <200 | 1,3,5-Trimethylbenzene | 300 |
| Chloroform | <200 | 1,1,2,2-Tetrachloroethane | <40 |
| 2-Butanone (MEK) | <4,000 ca | 1,2,3-Trichloropropane | <200 |
| 1,2-Dichloroethane (EDC) | <40 | 2-Chlorotoluene | <200 |
| 1,1,1-Trichloroethane | <200 | 4-Chlorotoluene | <200 |
| 1,1-Dichloropropene | <200 | tert-Butylbenzene | <200 |
| Carbon tetrachloride | <100 | 1,2,4-Trimethylbenzene | 770 |
| Benzene | 9.2 j | sec-Butylbenzene | <200 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <200 |
| 1,2-Dichloropropane | <200 | 1,3-Dichlorobenzene | <200 |
| Bromodichloromethane | <100 | 1,4-Dichlorobenzene | <200 |
| Dibromomethane | <200 | 1,2-Dichlorobenzene | <200 |
| 4-Methyl-2-pentanone | <2,000 | 1,2-Dibromo-3-chloropropane | <2,000 |
| cis-1,3-Dichloropropene | <80 | 1,2,4-Trichlorobenzene | <200 |
| Toluene | 20,000 | Hexachlorobutadiene | <100 |
| trans-1,3-Dichloropropene | <80 | Naphthalene | 450 |
| 1,1,2-Trichloroethane | <100 | 1,2,3-Trichlorobenzene | <200 |
| 2-Hexanone | <2,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 04-1088 mb |
| Date Analyzed: | 05/16/24 | Data File: | 051609.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | IJL |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 78 | 126 |
| Toluene-d8 | 98 | 84 | 115 |
| 4-Bromofluorobenzene | 95 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.025 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.025 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.025 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-01 |
| Date Analyzed: | 05/16/24 | Data File: | 051613.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 73 | 15 | 144 |
| 2-Fluorobiphenyl | 62 | 25 | 128 |
| 2,4,6-Tribromophenol | 80 | 10 | 142 |
| Terphenyl-d14 | 86 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 170 ve |
| 2-Methylnaphthalene | 28 |
| 1-Methylnaphthalene | 26 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.18 |
| Fluorene | 0.21 |
| Phenanthrene | 0.11 |
| Anthracene | 0.10 |
| Fluoranthene | 0.032 |
| Pyrene | 0.060 |
| Benz(a)anthracene | 0.067 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | 0.045 |
| Benzo(b)fluoranthene | 0.022 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | 0.030 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.062 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-01 1/20 |
| Date Analyzed: | 05/17/24 | Data File: | 051707.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 d | 15 | 144 |
| 2-Fluorobiphenyl | 58 d | 25 | 128 |
| 2,4,6-Tribromophenol | 103 d | 10 | 142 |
| Terphenyl-d14 | 70 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 160 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-13D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-02 |
| Date Analyzed: | 05/16/24 | Data File: | 051614.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 15 | 144 |
| 2-Fluorobiphenyl | 72 | 25 | 128 |
| 2,4,6-Tribromophenol | 79 | 10 | 142 |
| Terphenyl-d14 | 101 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 70 ve |
| 2-Methylnaphthalene | 22 |
| 1-Methylnaphthalene | 17 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.046 |
| Fluorene | 0.023 |
| Phenanthrene | 0.024 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-13D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-02 1/10 |
| Date Analyzed: | 05/17/24 | Data File: | 051708.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 81 d | 15 | 144 |
| 2-Fluorobiphenyl | 76 d | 25 | 128 |
| 2,4,6-Tribromophenol | 86 d | 10 | 142 |
| Terphenyl-d14 | 90 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-03 |
| Date Analyzed: | 05/16/24 | Data File: | 051615.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 15 | 144 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 58 | 10 | 142 |
| Terphenyl-d14 | 105 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.20 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-04 |
| Date Analyzed: | 05/16/24 | Data File: | 051616.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 77 | 15 | 144 |
| 2-Fluorobiphenyl | 75 | 25 | 128 |
| 2,4,6-Tribromophenol | 63 | 10 | 142 |
| Terphenyl-d14 | 103 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.51 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-05 |
| Date Analyzed: | 05/16/24 | Data File: | 051617.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 15 | 144 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 76 | 10 | 142 |
| Terphenyl-d14 | 113 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 270 ve |
| 2-Methylnaphthalene | 80 ve |
| 1-Methylnaphthalene | 34 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.14 |
| Fluorene | 0.19 |
| Phenanthrene | 0.15 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 405181-05 1/100 |
| Date Analyzed: | 05/17/24 | Data File: | 051709.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 d | 15 | 144 |
| 2-Fluorobiphenyl | 70 d | 25 | 128 |
| 2,4,6-Tribromophenol | 227 d | 10 | 142 |
| Terphenyl-d14 | 70 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 250 |
| 2-Methylnaphthalene | 68 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/16/24 | Lab ID: | 04-1152 mb |
| Date Analyzed: | 05/16/24 | Data File: | 051612.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 | 15 | 144 |
| 2-Fluorobiphenyl | 67 | 25 | 128 |
| 2,4,6-Tribromophenol | 74 | 10 | 142 |
| Terphenyl-d14 | 101 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405181-01 |
| Date Analyzed: | 05/16/24 | Data File: | 405181-01.264 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 35 |
| Lead | 5.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-13D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405181-02 |
| Date Analyzed: | 05/16/24 | Data File: | 405181-02.265 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 9.6 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405181-03 |
| Date Analyzed: | 05/16/24 | Data File: | 405181-03.270 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 4.7 |
| Lead | 1.8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405181-04 |
| Date Analyzed: | 05/16/24 | Data File: | 405181-04.271 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405181-05 |
| Date Analyzed: | 05/17/24 | Data File: | 405181-05.133 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 17 |
| Lead | 1.6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | I4-398 mb |
| Date Analyzed: | 05/15/24 | Data File: | I4-398 mb.132 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-01 |
| Date Analyzed: | 05/13/24 | Data File: | 405181-01.123 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|------|----|
| Lead | <1 |
|------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-01 x5 |
| Date Analyzed: | 05/15/24 | Data File: | 405181-01 x5.069 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 22 |
|---------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-9D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-01 x100 |
| Date Analyzed: | 05/20/24 | Data File: | 405181-01 x100.060 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,700 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-13D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-02 |
| Date Analyzed: | 05/13/24 | Data File: | 405181-02.124 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|------|----|
| Lead | <1 |
|------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-13D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-02 x5 |
| Date Analyzed: | 05/15/24 | Data File: | 405181-02 x5.070 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 8.0 |
|---------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-20D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-03 |
| Date Analyzed: | 05/15/24 | Data File: | 405181-03.071 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-04 |
| Date Analyzed: | 05/15/24 | Data File: | 405181-04.072 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 1.1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-22D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-04 x10 |
| Date Analyzed: | 05/20/24 | Data File: | 405181-04 x10.051 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 460 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-05 |
| Date Analyzed: | 05/13/24 | Data File: | 405181-05.132 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|------|----|
| Lead | <1 |
|------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-05 x5 |
| Date Analyzed: | 05/15/24 | Data File: | 405181-05 x5.075 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 14 |
|---------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-23D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/10/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405181-05 x100 |
| Date Analyzed: | 05/20/24 | Data File: | 405181-05 x100.064 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,500 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | I4-390 mb |
| Date Analyzed: | 05/13/24 | Data File: | I4-390 mb.074 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 k |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

Date Extracted: 05/13/24

Date Analyzed: 05/14/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-9D 405181-01 | 34 |
| MW-13D 405181-02 | <5 |
| MW-20D 405181-03 | 160 |
| MW-22D 405181-04 | 36 |
| MW-23D 405181-05 | 39 |
| Method Blank I4-0395 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 405191-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 92 | 92 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 405181-03 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 99 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 86 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 93 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 93 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 109 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 69 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 89 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 96 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 111 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 97 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 76 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 101 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 108 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 95 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 96 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 83 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 95 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 99 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 91 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 93 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 91 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 84 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 113 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 102 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 102 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | 1.0 | 101 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | 3.7 | 102 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | 1.8 | 102 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 100 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 90 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 95 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 95 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 102 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCS/D | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|------------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 103 | 105 | 46-206 | 2 |
| Chloromethane | ug/L (ppb) | 10 | 86 | 87 | 59-132 | 1 |
| Vinyl chloride | ug/L (ppb) | 10 | 96 | 95 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 106 | 105 | 50-197 | 1 |
| Chloroethane | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 109 | 101 | 51-159 | 8 |
| Acetone | ug/L (ppb) | 50 | 69 | 67 | 10-140 | 3 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 96 | 95 | 64-140 | 1 |
| Hexane | ug/L (ppb) | 10 | 90 | 89 | 54-136 | 1 |
| Methylene chloride | ug/L (ppb) | 10 | 93 | 92 | 43-134 | 1 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 97 | 97 | 70-130 | 0 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 95 | 95 | 70-130 | 0 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 110 | 108 | 64-148 | 2 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| Chloroform | ug/L (ppb) | 10 | 98 | 95 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 80 | 81 | 47-112 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 89 | 92 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 108 | 107 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 95 | 94 | 70-130 | 1 |
| Trichloroethene | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 85 | 87 | 70-130 | 2 |
| Bromodichloromethane | ug/L (ppb) | 10 | 97 | 95 | 70-130 | 2 |
| Dibromomethane | ug/L (ppb) | 10 | 98 | 98 | 70-130 | 0 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 101 | 101 | 68-130 | 0 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 92 | 90 | 69-131 | 2 |
| Toluene | ug/L (ppb) | 10 | 97 | 94 | 70-130 | 3 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 95 | 90 | 70-130 | 5 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 91 | 87 | 70-130 | 4 |
| 2-Hexanone | ug/L (ppb) | 50 | 84 | 83 | 45-138 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 90 | 85 | 70-130 | 6 |
| Tetrachloroethene | ug/L (ppb) | 10 | 111 | 107 | 70-130 | 4 |
| Dibromochloromethane | ug/L (ppb) | 10 | 105 | 96 | 60-148 | 9 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 103 | 98 | 70-130 | 5 |
| Chlorobenzene | ug/L (ppb) | 10 | 97 | 93 | 70-130 | 4 |
| Ethylbenzene | ug/L (ppb) | 10 | 101 | 97 | 70-130 | 4 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 101 | 98 | 70-130 | 3 |
| m,p-Xylene | ug/L (ppb) | 20 | 101 | 97 | 70-130 | 4 |
| o-Xylene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| Styrene | ug/L (ppb) | 10 | 92 | 88 | 70-130 | 4 |
| Isopropylbenzene | ug/L (ppb) | 10 | 99 | 95 | 70-130 | 4 |
| Bromoform | ug/L (ppb) | 10 | 109 | 97 | 69-138 | 12 |
| n-Propylbenzene | ug/L (ppb) | 10 | 92 | 87 | 70-130 | 6 |
| Bromobenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 95 | 90 | 70-130 | 5 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 95 | 98 | 70-130 | 3 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 93 | 88 | 70-130 | 6 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 93 | 88 | 70-130 | 6 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 92 | 89 | 70-130 | 3 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 96 | 92 | 70-130 | 4 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 95 | 91 | 70-130 | 4 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 96 | 91 | 70-130 | 5 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 98 | 94 | 70-130 | 4 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 100 | 97 | 70-130 | 3 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 96 | 94 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 96 | 93 | 70-130 | 3 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 105 | 96 | 70-130 | 9 |
| Naphthalene | ug/L (ppb) | 10 | 92 | 88 | 70-130 | 4 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 99 | 94 | 70-130 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 67 | 68 | 58-93 | 1 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 63 | 69 | 63-97 | 9 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 65 | 70 | 62-99 | 7 |
| Acenaphthylene | ug/L (ppb) | 10 | 78 | 81 | 68-111 | 4 |
| Acenaphthene | ug/L (ppb) | 10 | 76 | 80 | 67-104 | 5 |
| Fluorene | ug/L (ppb) | 10 | 75 | 83 | 70-130 | 10 |
| Phenanthrene | ug/L (ppb) | 10 | 79 | 82 | 70-130 | 4 |
| Anthracene | ug/L (ppb) | 10 | 81 | 83 | 70-130 | 2 |
| Fluoranthene | ug/L (ppb) | 10 | 86 | 94 | 70-130 | 9 |
| Pyrene | ug/L (ppb) | 10 | 87 | 90 | 70-130 | 3 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 88 | 93 | 70-130 | 6 |
| Chrysene | ug/L (ppb) | 10 | 90 | 95 | 70-130 | 5 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 94 | 100 | 70-130 | 6 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 93 | 97 | 70-130 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 90 | 99 | 70-130 | 10 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 90 | 95 | 70-130 | 5 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 89 | 98 | 70-130 | 10 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 87 | 94 | 68-131 | 8 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 405241-09 x10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <10 | 97 | 88 | 75-125 | 10 |
| Lead | ug/L (ppb) | 10 | <10 | 102 | 95 | 75-125 | 7 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 90 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 405182-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 96 | 90 | 75-125 | 6 |
| Lead | ug/L (ppb) | 10 | <1 | 93 | 89 | 75-125 | 4 |
| Manganese | ug/L (ppb) | 20 | 164 | 88 b | 60 b | 75-125 | 38 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 87 | 80-120 |
| Lead | ug/L (ppb) | 10 | 98 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/24

Date Received: 05/10/24

Project: Whidbey Marine Auto, F&BI 405181

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 405142-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | Mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 102 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

1K5/VW3/E3

Page # 1 of 1

☒ Standard turnaround
☐ RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

[illegible]

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 405181 CLIENT HNA INITIALS/ AP
DATE: 05/10/24

If custody seals are present on cooler, are they intact? ☒ ^{AP} NA ☒ YES ☐ NO

Cooler/Sample temperature 3 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

| | | |
|--------------------|---|--|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Not on COC/label |
| # of Containers | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Not on <u>COC</u> /label |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | |

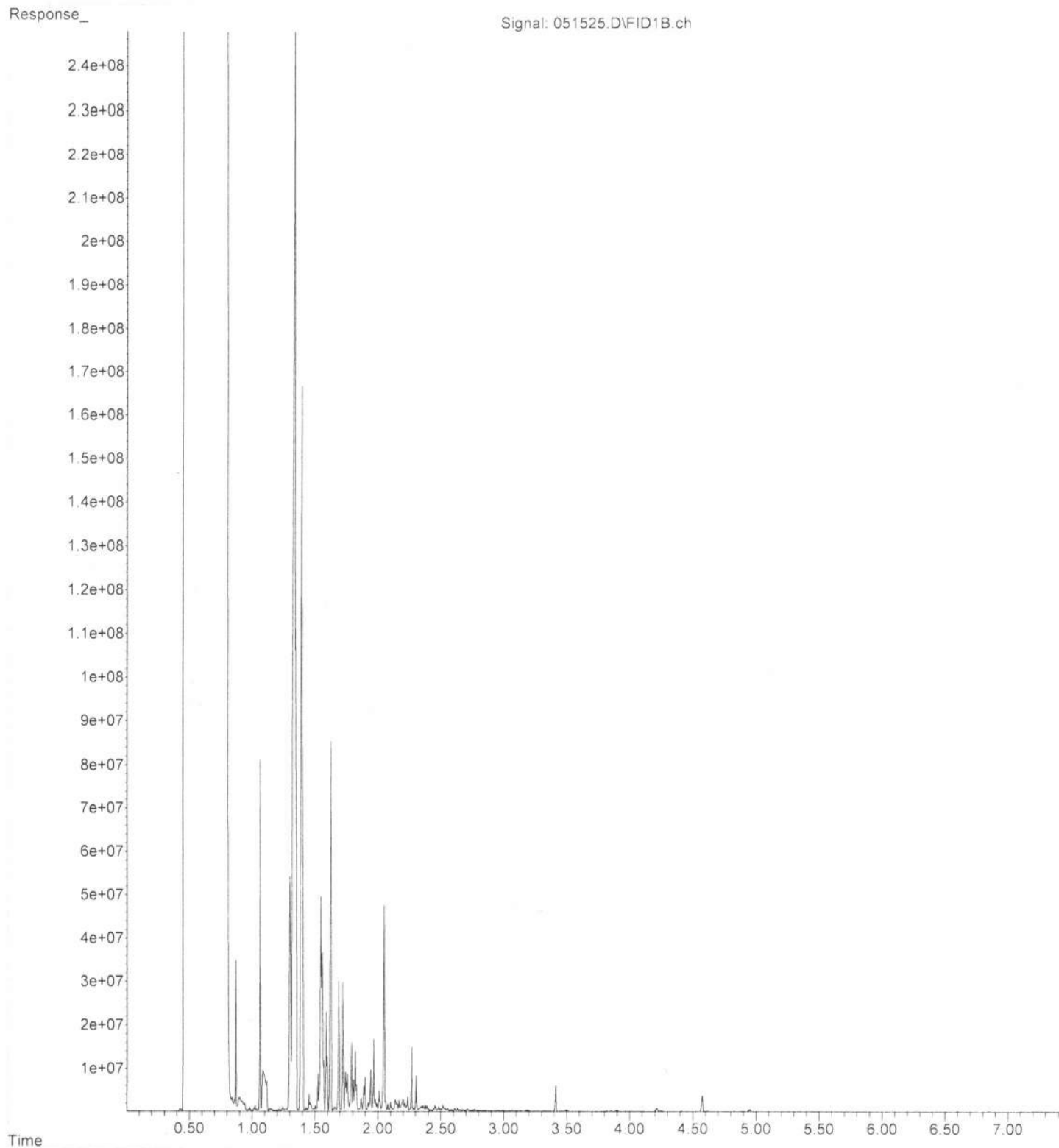
Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

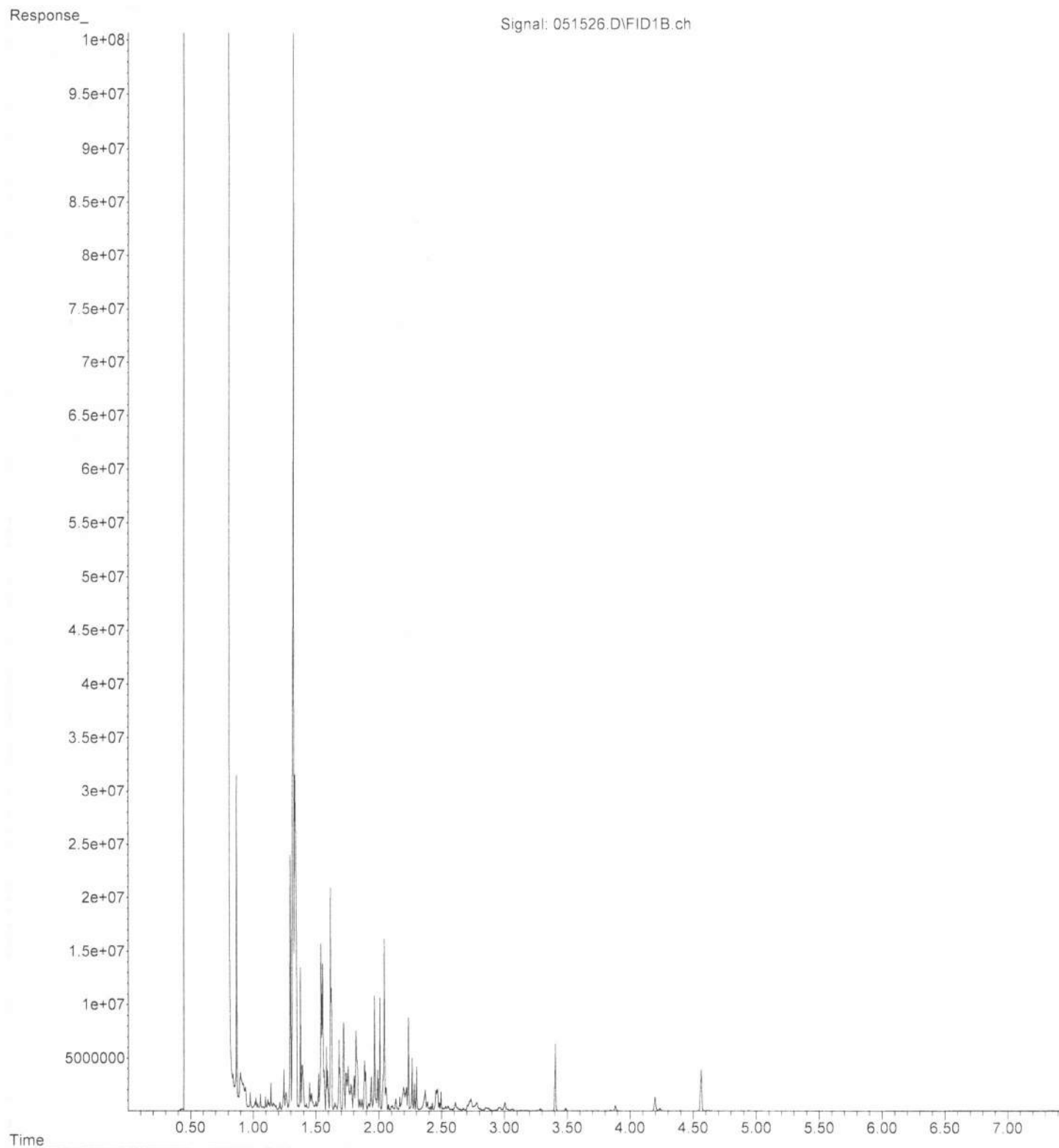
File : P:\Proc_GC14\05-15-24\051525.D
Operator : TL
Acquired : 15 May 2024 02:47 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405181-01
Misc Info :
Vial Number: 25

ERR



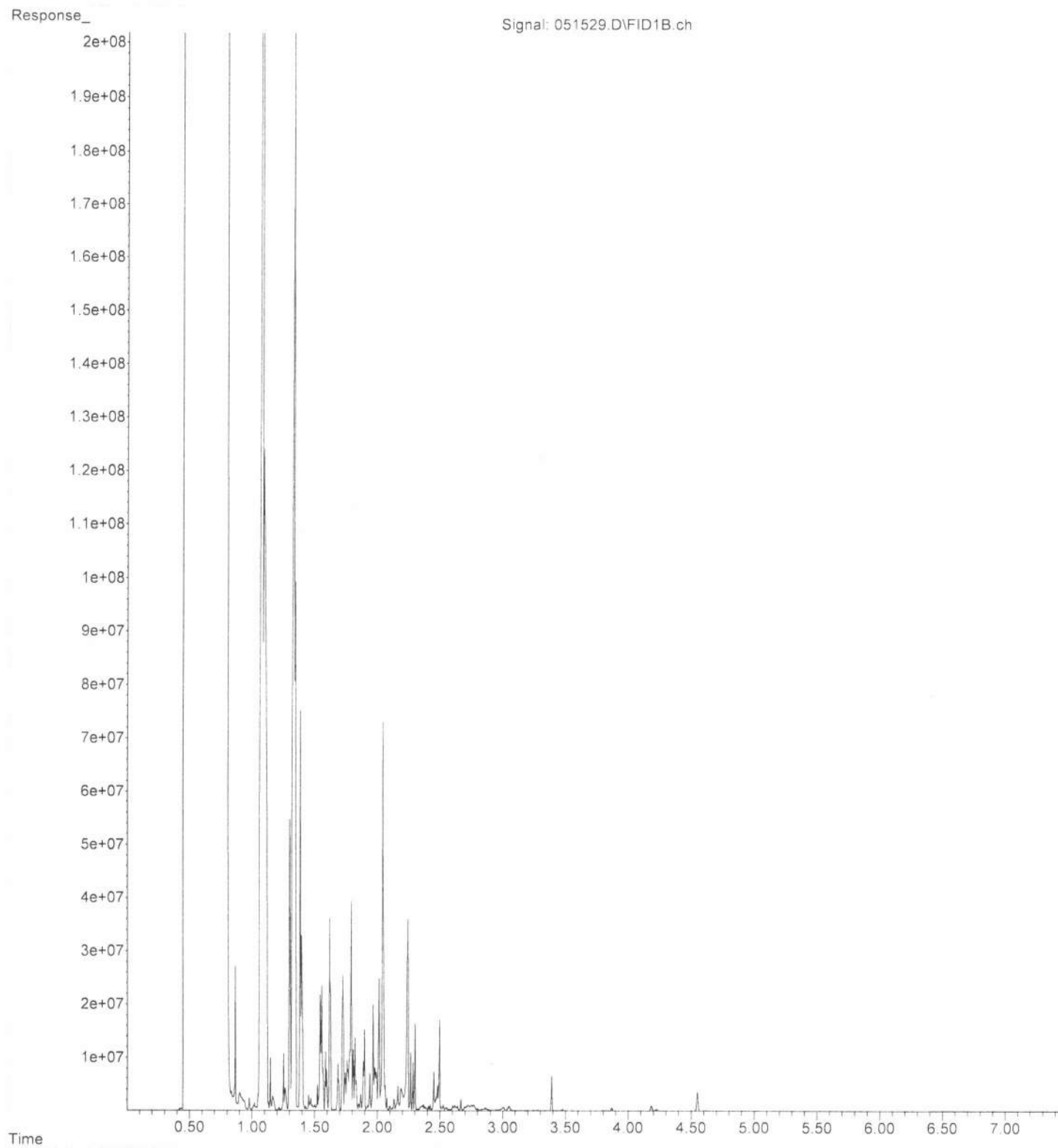
File : P:\Proc_GC14\05-15-24\051526.D
Operator : TL
Acquired : 15 May 2024 02:59 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405181-02
Misc Info :
Vial Number: 26

ERR



File :P:\Proc_GC14\05-15-24\051529.D
Operator : TL
Acquired : 15 May 2024 03:35 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405181-05
Misc Info :
Vial Number: 29

ERR





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info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 405181, E-191

Work Order Number: 2405200

May 17, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 5/10/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by SM 2320B

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 05/17/2024

CLIENT: Friedman & Bruya
Project: 405181
Work Order: 2405200

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2405200-001 | MW-9D | 05/09/2024 10:50 AM | 05/10/2024 11:30 AM |
| 2405200-002 | MW-22D | 05/09/2024 2:40 PM | 05/10/2024 11:30 AM |
| 2405200-003 | MW-23D | 05/09/2024 1:10 PM | 05/10/2024 11:30 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 405181

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 405181

Lab ID: 2405200-001

Collection Date: 5/9/2024 10:50:00 AM

Client Sample ID: MW-9D

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R91779 Analyst: LB

| | | | | | | |
|---------|---------|---------|--|------|---|-----------------------|
| Methane | 0.00882 | 0.00500 | | mg/L | 1 | 5/16/2024 12:29:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:29:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:29:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 43868 Analyst: FG

| | | | | | | |
|----------------|------|-------|---|------|----|----------------------|
| Chloride | 28.2 | 2.00 | D | mg/L | 10 | 5/15/2024 8:06:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 5/11/2024 1:43:00 AM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 5/11/2024 1:43:00 AM |
| Sulfate | 2.41 | 1.00 | | mg/L | 1 | 5/11/2024 1:43:00 AM |

Total Organic Carbon by SM 5310C

Batch ID: R91680 Analyst: FG

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 10.8 | 0.700 | | mg/L | 1 | 5/14/2024 10:53:00 PM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by SM 2320B

Batch ID: R91692 Analyst: NR

| | | | | | | |
|---|-----|------|--|------|---|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 210 | 2.50 | | mg/L | 1 | 5/14/2024 12:01:00 PM |
|---|-----|------|--|------|---|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 43897 Analyst: SS

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 11:47:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R91640 Analyst: SS

| | | | | | | |
|---------|-------|--------|--|------|---|----------------------|
| Sulfide | 0.223 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |
|---------|-------|--------|--|------|---|----------------------|

CLIENT: Friedman & Bruya
Project: 405181

Lab ID: 2405200-002

Client Sample ID: MW-22D

Collection Date: 5/9/2024 2:40:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | ND | 0.00500 | | mg/L | 1 | 5/16/2024 12:34:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:34:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:34:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43905 | | Analyst: FG |
| Chloride | 5.37 | 0.200 | | mg/L | 1 | 5/14/2024 2:45:00 AM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 5/11/2024 2:11:00 AM |
| Nitrate (as N) | 1.02 | 0.200 | | mg/L | 1 | 5/11/2024 2:11:00 AM |
| Sulfate | 6.42 | 1.00 | | mg/L | 1 | 5/11/2024 2:11:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 1.52 | 0.700 | | mg/L | 1 | 5/14/2024 11:24:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91692 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 123 | 2.50 | | mg/L | 1 | 5/14/2024 12:01:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 11:52:00 AM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

CLIENT: Friedman & Bruya
Project: 405181

Lab ID: 2405200-003

Client Sample ID: MW-23D

Collection Date: 5/9/2024 1:10:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | 0.107 | 0.00500 | | mg/L | 1 | 5/16/2024 12:37:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:37:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:37:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43868 | | Analyst: FG |
| Chloride | 27.0 | 2.00 | D | mg/L | 10 | 5/15/2024 11:58:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 5/11/2024 3:33:00 AM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 5/11/2024 3:33:00 AM |
| Sulfate | 2.22 | 1.00 | | mg/L | 1 | 5/11/2024 3:33:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 10.6 | 0.700 | | mg/L | 1 | 5/14/2024 11:55:00 PM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91692 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 248 | 2.50 | | mg/L | 1 | 5/14/2024 12:01:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 11:57:00 AM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.186 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R91692 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91692 | | |
| Client ID: MBLKW | | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | | | | | SeqNo: 1912530 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R91692 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91692 | | |
| Client ID: LCSW | | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | | | | | SeqNo: 1912531 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|-----|------|-------|---|-----|------|-------|--|--|--|--|
| Alkalinity, Total (As CaCO3) | 107 | 2.50 | 100.0 | 0 | 107 | 89.7 | 129.7 | | | | |
|------------------------------|-----|------|-------|---|-----|------|-------|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405160-002ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91692 | | |
| Client ID: BATCH | | Batch ID: R91692 | | | Analysis Date: 5/14/2024 | | | | | SeqNo: 1912534 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|-----|------|--|--|--|--|--|-------|------|----|--|
| Alkalinity, Total (As CaCO3) | 131 | 2.50 | | | | | | 127.8 | 2.19 | 20 | |
|------------------------------|-----|------|--|--|--|--|--|-------|------|----|--|

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|--|
| Sample ID: MB-43897 | | SampType: MBLK | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | | |
| Client ID: MBLKW | | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912150 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-43897 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: LCSW | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912151 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.458 0.150 0.5000 0 91.6 83.7 113.7

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405136-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912153 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405136-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912154 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405136-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912155 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 0 30 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: 2405202-003DDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 5/14/2024 | | | | RunNo: 91676 | | |
| Client ID: BATCH | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912168 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2405202-003DMS | SampType: MS | Units: mg/L | | | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | Batch ID: 43897 | | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912169 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.150 | 0.5000 | 0 | 0 | 12.2 | 150 | | | | S |

NOTES:

S - Spike recovery indicates a possible matrix effect.

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: LCS-43868 | SampType: LCS | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | Batch ID: 43868 | | | | Analysis Date: 5/10/2024 | | | SeqNo: 1911131 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.737 | 0.200 | 0.7500 | 0 | 98.3 | 90 | 110 | | | | |
| Nitrite (as N) | 0.742 | 0.200 | 0.7500 | 0 | 98.9 | 90 | 110 | | | | |
| Nitrate (as N) | 0.736 | 0.200 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Sulfate | 3.55 | 1.00 | 3.750 | 0 | 94.7 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-43868 | | SampType: MBLK | | Units: mg/L | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | |
| Client ID: MBLKW | | Batch ID: 43868 | | | | | Analysis Date: 5/10/2024 | | | SeqNo: 1911133 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Sample ID: 2405211-003BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
| Client ID: BATCH | Batch ID: 43868 | | | | Analysis Date: 5/11/2024 | | | SeqNo: 1911142 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 18.6 | 0.200 | | | | | | 18.50 | 0.275 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | 6.94 | 1.00 | | | | | | 6.912 | 0.447 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2405211-003BMS | SampType: MS | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
| Client ID: BATCH | Batch ID: 43868 | | | | Analysis Date: 5/11/2024 | | | SeqNo: 1911143 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 18.8 | 0.200 | 0.7500 | 18.50 | 41.1 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.736 | 0.200 | 0.7500 | 0 | 98.1 | 80 | 120 | | | | |
| Nitrate (as N) | 0.745 | 0.200 | 0.7500 | 0 | 99.3 | 80 | 120 | | | | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405211-003BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | |
| Client ID: BATCH | | Batch ID: 43868 | | | Analysis Date: 5/11/2024 | | | | | SeqNo: 1911143 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|------|------|-------|-------|-----|----|-----|--|--|--|--|
| Sulfate | 10.7 | 1.00 | 3.750 | 6.912 | 102 | 80 | 120 | | | | |
|---------|------|------|-------|-------|-----|----|-----|--|--|--|--|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

S - Spike recovery indicates a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-43905 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: LCSW | | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912049 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.729 | 0.200 | 0.7500 | 0 | 97.2 | 90 | 110 | | | | |
|----------|-------|-------|--------|---|------|----|-----|--|--|--|--|

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-43905 | | SampType: MBLK | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: MBLKW | | Batch ID: 43905 | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912051 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.200 | | | | | | | | | |
|----------|----|-------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405118-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | | | | | SeqNo: 1912057 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------|------|-------|--|--|--|--|--|-------|---|----|---|
| Chloride | 7.47 | 0.200 | | | | | | 7.474 | 0 | 20 | E |
|----------|------|-------|--|--|--|--|--|-------|---|----|---|

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405118-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1912058 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------|------|-------|--------|-------|------|----|-----|--|--|--|----|
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.5 | 80 | 120 | | | | ES |
|----------|------|-------|--------|-------|------|----|-----|--|--|--|----|

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2405118-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: BATCH | | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | | | | SeqNo: 1912059 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.7 | 80 | 120 | 8.070 | 0.0248 | 20 | ES | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| | | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|--------|-----------------------|------|--|
| Sample ID: 2405200-002CDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 5/13/2024 | | | | RunNo: 91669 | | |
| Client ID: MW-22D | Batch ID: 43905 | | | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912068 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 5.36 | 0.200 | | | | | | 5.369 | 0.0745 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405200-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91669 | | |
| Client ID: MW-22D | | Batch ID: 43905 | | | Analysis Date: 5/14/2024 | | | | | SeqNo: 1912069 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 6.01 | 0.200 | 0.7500 | 5.369 | 85.7 | 80 | 120 | | | | E | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R91640 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: MBLKW | | Batch ID: R91640 | | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911464 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R91640 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: LCSW | | Batch ID: R91640 | | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911465 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.190 | 0.0500 | 0.2000 | 0 | 94.9 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405116-001ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911467 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405116-001AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911468 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.240 | 0.0500 | 0.2000 | 0.04024 | 99.9 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2405116-001AMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911469 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.247 | 0.0500 | 0.2000 | 0.04024 | 103 | 80 | 120 | 0.2400 | 2.72 | 20 | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|--------------------------|----------|----------------------|----------------|------|--------------|------|--|
| Sample ID: 2405211-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911496 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|---------------------------|--------|------------------|-----------|-------------|--------------------------|----------|----------------------|----------------|------|--------------|------|--|
| Sample ID: 2405211-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911497 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.190 | 0.0500 | 0.2000 | 0.01643 | 86.7 | 80 | 120 | | | | | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-91680 | SampType: MBLK | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MBLKW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912582 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-91680 | SampType: LCS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: LCSW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912583 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.94 | 0.700 | 5.000 | 0 | 98.7 | 90.6 | 119 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|--|
| Sample ID: 2405160-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912585 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.46 | 0.700 | | | | | | 1.466 | 0.616 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMS | SampType: MS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912586 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.65 | 0.700 | 5.000 | 1.466 | 104 | 74.4 | 117 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912587 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.29 | 0.700 | 5.000 | 1.466 | 96.5 | 74.4 | 117 | 6.654 | 5.64 | 30 | | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Sample ID: 2405211-001DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | | |
| Client ID: BATCH | Batch ID: R91680 | | | | Analysis Date: 5/15/2024 | | | SeqNo: 1912600 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 2.80 | 0.700 | | | | | | 2.807 | 0.428 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2405211-001DMS | SampType: MS | Units: mg/L | | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | | |
| Client ID: BATCH | Batch ID: R91680 | | | | Analysis Date: 5/15/2024 | | | SeqNo: 1912601 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 7.53 | 0.700 | 5.000 | 2.807 | 94.4 | 74.4 | 117 | | | | |

Work Order: 2405200
CLIENT: Friedman & Bruya
Project: 405181

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R91779 | | SampType: LCS | | | Units: ppmv | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: LCSW | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | | | SeqNo: 1914871 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-----|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 935 | 0.00500 | 1,000 | 0 | 93.5 | 73.6 | 124 | | | | |
| Ethene | 918 | 0.0100 | 1,000 | 0 | 91.8 | 76.3 | 122 | | | | |
| Ethane | 936 | 0.0100 | 1,000 | 0 | 93.6 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R91779 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: MBLKW | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | | | SeqNo: 1914874 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405200-001AREP | | SampType: REP | | | Units: mg/L | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: MW-9D | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | | | SeqNo: 1914853 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|---------|---------|--|--|--|--|--|----------|------|----|--|
| Methane | 0.00855 | 0.00500 | | | | | | 0.008822 | 3.12 | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2405200

Logged by: Clare Griggs

Date Received: 5/10/2024 11:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
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May 22, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on May 9, 2024 from the Whidbey Marine Auto 0204475-001, F&BI 405176 project. There are 50 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA0522R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 9, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine Auto, F&BI 405176 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 405176 -01 | MW-2S |
| 405176 -02 | MW-12D |
| 405176 -03 | MW-21D |
| 405176 -04 | MW-8S |
| 405176 -05 | MW-6S |
| 405176 -06 | MW-17D |
| 405176 -07 | FD-01 |

Samples MW-12D, MW-21D, MW-8S, MW-17D, and FD-01 were sent to Fremont Analytical for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard exceeded the acceptance criteria for acetone. The compound was not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

The 8270E calibration standard exceeded the acceptance criteria for indeno(1,2,3-cd)pyrene and dibenz(a,h)anthracene for the method blank. The compounds were not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier. The results are not considered estimates.

The dissolved metals sample MW-2S was filtered at Friedman and Bruya. The data were qualified accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

Date Extracted: 05/13/24

Date Analyzed: 05/14/24 and 05/15/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-2S 405176-01 | <100 | 87 |
| MW-12D 405176-02 1/10 | 53,000 | 86 |
| MW-21D 405176-03 | 1,300 | 89 |
| MW-8S 405176-04 | 3,200 | 83 |
| MW-6S 405176-05 1/10 | 5,300 | 89 |
| MW-17D 405176-06 | 3,700 | 89 |
| FD-01 405176-07 | 1,200 | 93 |
| Method Blank 04-889 MB | <100 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

Date Extracted: 05/14/24

Date Analyzed: 05/15/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-2S 405176-01 1/0.8 | 230 x | <200 | 99 |
| MW-12D 405176-02 | 4,200 x | <250 | 99 |
| MW-21D 405176-03 | 350 x | <250 | 107 |
| MW-8S 405176-04 1/1.2 | 720 x | <300 | 107 |
| MW-6S 405176-05 1/1.2 | 1,100 x | <300 | 107 |
| MW-17D 405176-06 | 430 x | <250 | 108 |
| FD-01 405176-07 | 340 x | <250 | 103 |
| Method Blank 04-1154 MB | <50 | <250 | 102 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-2S
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-01
 Data File: 051521.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 102 | 84 | 115 |
| 4-Bromofluorobenzene | 96 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-12D
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-02 1/50
 Data File: 051529.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 95 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <50 | 1,3-Dichloropropane | <50 |
| Chloromethane | <500 | Tetrachloroethene | 16 j |
| Vinyl chloride | <1 | Dibromochloromethane | <25 |
| Bromomethane | <250 | 1,2-Dibromoethane (EDB) | <0.5 |
| Chloroethane | <50 | Chlorobenzene | <50 |
| Trichlorofluoromethane | <50 | Ethylbenzene | 1,900 |
| Acetone | <2,500 k | 1,1,1,2-Tetrachloroethane | <50 |
| 1,1-Dichloroethene | <50 | m,p-Xylene | 7,100 |
| Hexane | <250 | o-Xylene | 2,500 |
| Methylene chloride | <250 | Styrene | <50 |
| Methyl t-butyl ether (MTBE) | <50 | Isopropylbenzene | 61 |
| trans-1,2-Dichloroethene | <50 | Bromoform | <250 |
| 1,1-Dichloroethane | <50 | n-Propylbenzene | 180 |
| 2,2-Dichloropropane | <50 | Bromobenzene | <50 |
| cis-1,2-Dichloroethene | <50 | 1,3,5-Trimethylbenzene | 550 |
| Chloroform | <50 | 1,1,2,2-Tetrachloroethane | <10 |
| 2-Butanone (MEK) | <1,000 | 1,2,3-Trichloropropane | <50 |
| 1,2-Dichloroethane (EDC) | <10 | 2-Chlorotoluene | <50 |
| 1,1,1-Trichloroethane | <50 | 4-Chlorotoluene | <50 |
| 1,1-Dichloropropene | <50 | tert-Butylbenzene | <50 |
| Carbon tetrachloride | <25 | 1,2,4-Trimethylbenzene | 2,100 |
| Benzene | <5 j | sec-Butylbenzene | <50 |
| Trichloroethene | <5 j | p-Isopropyltoluene | <50 |
| 1,2-Dichloropropane | <50 | 1,3-Dichlorobenzene | <50 |
| Bromodichloromethane | <25 | 1,4-Dichlorobenzene | <50 |
| Dibromomethane | <50 | 1,2-Dichlorobenzene | <50 |
| 4-Methyl-2-pentanone | <500 | 1,2-Dibromo-3-chloropropane | <500 |
| cis-1,3-Dichloropropene | <20 | 1,2,4-Trichlorobenzene | <50 |
| Toluene | 3,300 | Hexachlorobutadiene | <25 |
| trans-1,3-Dichloropropene | <20 | Naphthalene | 700 |
| 1,1,2-Trichloroethane | <25 | 1,2,3-Trichlorobenzene | <50 |
| 2-Hexanone | <500 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-21D
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-03
 Data File: 051522.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 101 | 84 | 115 |
| 4-Bromofluorobenzene | 93 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 51 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 19 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 73 |
| Hexane | <5 | o-Xylene | 28 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 2.3 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 6.2 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 25 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 70 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 20 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-8S
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-04
 Data File: 051524.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 86 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 100 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | 36 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 35 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 41 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 110 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 190 |
| Benzene | <0.35 | sec-Butylbenzene | 5.2 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | 2.7 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 10 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-6S
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-05 1/10
 Data File: 051526.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 78 | 126 |
| Toluene-d8 | 104 | 84 | 115 |
| 4-Bromofluorobenzene | 98 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <5 j |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 140 |
| Acetone | <500 k | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 180 |
| Hexane | <50 | o-Xylene | <10 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 21 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 36 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 95 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 280 |
| Benzene | <3.5 | sec-Butylbenzene | <10 |
| Trichloroethene | <5 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 130 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-17D
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-06 1/10
 Data File: 051527.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 92 | 78 | 126 |
| Toluene-d8 | 103 | 84 | 115 |
| 4-Bromofluorobenzene | 92 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <5 j |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | 230 |
| Acetone | <500 k | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | 480 |
| Hexane | <50 | o-Xylene | 38 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | <10 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 20 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 36 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 160 |
| Benzene | 42 | sec-Butylbenzene | <10 |
| Trichloroethene | 10 | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | 81 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 65 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: FD-01
 Date Received: 05/09/24
 Date Extracted: 05/15/24
 Date Analyzed: 05/15/24
 Matrix: Water
 Units: ug/L (ppb)

Client: Haley & Aldrich, Inc
 Project: Whidbey Marine Auto
 Lab ID: 405176-07
 Data File: 051523.D
 Instrument: GCMS11
 Operator: MD

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 89 | 78 | 126 |
| Toluene-d8 | 101 | 84 | 115 |
| 4-Bromofluorobenzene | 94 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 50 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 18 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 68 |
| Hexane | <5 | o-Xylene | 26 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 2.1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 5.7 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 23 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 63 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 19 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 04-1086 mb |
| Date Analyzed: | 05/15/24 | Data File: | 051509.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 103 | 78 | 126 |
| Toluene-d8 | 103 | 84 | 115 |
| 4-Bromofluorobenzene | 92 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.2 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.1 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.1 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-01 |
| Date Analyzed: | 05/15/24 | Data File: | 051518.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 77 | 15 | 144 |
| 2-Fluorobiphenyl | 77 | 25 | 128 |
| 2,4,6-Tribromophenol | 80 | 10 | 142 |
| Terphenyl-d14 | 94 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.31 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | 0.22 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.063 |
| Anthracene | 0.022 |
| Fluoranthene | 0.041 |
| Pyrene | 0.029 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-02 |
| Date Analyzed: | 05/15/24 | Data File: | 051519.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 15 | 144 |
| 2-Fluorobiphenyl | 77 | 25 | 128 |
| 2,4,6-Tribromophenol | 88 | 10 | 142 |
| Terphenyl-d14 | 96 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 340 ve |
| 2-Methylnaphthalene | 63 |
| 1-Methylnaphthalene | 35 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.040 |
| Fluorene | 0.10 |
| Phenanthrene | 0.11 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-02 1/50 |
| Date Analyzed: | 05/16/24 | Data File: | 051611.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 d | 15 | 144 |
| 2-Fluorobiphenyl | 70 d | 25 | 128 |
| 2,4,6-Tribromophenol | 170 d | 10 | 142 |
| Terphenyl-d14 | 85 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 350 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-03 |
| Date Analyzed: | 05/15/24 | Data File: | 051520.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 77 | 15 | 144 |
| 2-Fluorobiphenyl | 72 | 25 | 128 |
| 2,4,6-Tribromophenol | 83 | 10 | 142 |
| Terphenyl-d14 | 97 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-04 |
| Date Analyzed: | 05/15/24 | Data File: | 051521.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 15 | 144 |
| 2-Fluorobiphenyl | 72 | 25 | 128 |
| 2,4,6-Tribromophenol | 87 | 10 | 142 |
| Terphenyl-d14 | 96 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 7.3 |
| 2-Methylnaphthalene | 17 |
| 1-Methylnaphthalene | 22 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.082 |
| Fluorene | 0.082 |
| Phenanthrene | 0.048 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-05 |
| Date Analyzed: | 05/15/24 | Data File: | 051522.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 73 | 15 | 144 |
| 2-Fluorobiphenyl | 67 | 25 | 128 |
| 2,4,6-Tribromophenol | 80 | 10 | 142 |
| Terphenyl-d14 | 91 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 11 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | 2.9 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.028 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-06 |
| Date Analyzed: | 05/15/24 | Data File: | 051523.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 15 | 144 |
| 2-Fluorobiphenyl | 76 | 25 | 128 |
| 2,4,6-Tribromophenol | 82 | 10 | 142 |
| Terphenyl-d14 | 98 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 48 |
| 2-Methylnaphthalene | 13 |
| 1-Methylnaphthalene | 6.4 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.029 |
| Fluorene | 0.022 |
| Phenanthrene | 0.023 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------|
| Client Sample ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 405176-07 |
| Date Analyzed: | 05/16/24 | Data File: | 051609.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 15 | 144 |
| 2-Fluorobiphenyl | 72 | 25 | 128 |
| 2,4,6-Tribromophenol | 75 | 10 | 142 |
| Terphenyl-d14 | 103 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.47 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|----------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/15/24 | Lab ID: | 04-1165 mb2 |
| Date Analyzed: | 05/15/24 | Data File: | 051516.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 74 | 10 | 140 |
| Terphenyl-d14 | 89 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 k |
| Dibenz(a,h)anthracene | <0.02 k |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-01 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-01.145 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-02 |
| Date Analyzed: | 05/11/24 | Data File: | 405176-02.236 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 31 |
| Lead | 1.5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-03 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-03.155 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.9 |
| Lead | 2.6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-04 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-04.156 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 3.7 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-05 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-05.157 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-06 |
| Date Analyzed: | 05/11/24 | Data File: | 405176-06.240 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 28 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-07 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-07.166 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.5 |
| Lead | 2.6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | I4-383 mb |
| Date Analyzed: | 05/10/24 | Data File: | I4-383 mb.100 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-2S f | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | 405176-01 |
| Date Analyzed: | 05/13/24 | Data File: | 405176-01.087 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.3 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-02 |
| Date Analyzed: | 05/10/24 | Data File: | 405176-02.189 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|------|----|
| Lead | <1 |
|------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-12D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-02 x10 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-02 x10.132 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Arsenic | 29 |
| Manganese | 3,900 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-21D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-03 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-03.133 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Arsenic | 1.7 |
| Lead | 2.2 |
| Manganese | 83 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-8S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-04 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-04.134 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 3.3 |
| Lead | <1 |
| Manganese | 440 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-6S | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-05 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-05.142 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.3 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-06 |
| Date Analyzed: | 05/11/24 | Data File: | 405176-06.229 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|------|----|
| Lead | <1 |
|------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | MW-17D | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-06 x10 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-06 x10.143 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Arsenic | 28 |
| Manganese | 3,400 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|----------------------|
| Client ID: | FD-01 | Client: | Haley & Aldrich, Inc |
| Date Received: | 05/09/24 | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | 405176-07 |
| Date Analyzed: | 05/14/24 | Data File: | 405176-07.144 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 1.7 |
| Lead | 2.2 |
| Manganese | 80 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|----------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/13/24 | Lab ID: | I4-389 mb |
| Date Analyzed: | 05/13/24 | Data File: | I4-389 mb.072 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|----------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine Auto |
| Date Extracted: | 05/10/24 | Lab ID: | I4-382 mb |
| Date Analyzed: | 05/14/24 | Data File: | I4-382 mb.106 |
| Matrix: | Water | Instrument: | ICPMS2 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

Date Extracted: 05/13/24

Date Analyzed: 05/14/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-2S 405176-01 | 65 |
| MW-12D 405176 -02 | 9.2 |
| MW-21D 405176 -03 | 5.6 |
| MW-8S 405176 -04 | <5 |
| MW-6S 405176 -05 | <5 |
| MW-17D 405176 -06 | 18 |
| FD-01 405176 -07 | 6.4 |
| Method Blank I4-0395 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 405191-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 92 | 92 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 405176-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 84 | 30-221 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 90 | 50-150 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 93 | 50-150 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 98 | 50-150 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 65 | 18-161 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 92 | 50-150 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 90 | 50-150 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 98 | 43-171 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 98 | 10-211 |
| Chloroform | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 78 | 10-192 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 98 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 105 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 94 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 96 | 35-149 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 84 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 94 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 112 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 86 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 92 | 50-150 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 89 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 89 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 98 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 99 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 100 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 103 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 94 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 95 | 50-150 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 93 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 89 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 92 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 99 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 89 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 96 | 50-150 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCS D | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|------------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 102 | 98 | 46-206 | 4 |
| Chloromethane | ug/L (ppb) | 10 | 89 | 82 | 59-132 | 8 |
| Vinyl chloride | ug/L (ppb) | 10 | 90 | 89 | 64-142 | 1 |
| Bromomethane | ug/L (ppb) | 10 | 86 | 100 | 50-197 | 15 |
| Chloroethane | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 98 | 99 | 51-159 | 1 |
| Acetone | ug/L (ppb) | 50 | 65 | 65 | 10-140 | 0 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 93 | 91 | 64-140 | 2 |
| Hexane | ug/L (ppb) | 10 | 92 | 90 | 54-136 | 2 |
| Methylene chloride | ug/L (ppb) | 10 | 95 | 86 | 43-134 | 10 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 93 | 92 | 70-130 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 88 | 87 | 70-130 | 1 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 103 | 104 | 64-148 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 92 | 70-130 | 1 |
| Chloroform | ug/L (ppb) | 10 | 91 | 91 | 70-130 | 3 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 78 | 76 | 47-112 | 3 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 100 | 99 | 70-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 91 | 88 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 102 | 102 | 70-130 | 0 |
| Benzene | ug/L (ppb) | 10 | 93 | 91 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 92 | 92 | 70-130 | 0 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 84 | 81 | 70-130 | 4 |
| Bromodichloromethane | ug/L (ppb) | 10 | 96 | 93 | 70-130 | 3 |
| Dibromomethane | ug/L (ppb) | 10 | 96 | 94 | 70-130 | 2 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 102 | 101 | 68-130 | 1 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 88 | 91 | 69-131 | 3 |
| Toluene | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 94 | 92 | 70-130 | 2 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 88 | 88 | 70-130 | 0 |
| 2-Hexanone | ug/L (ppb) | 50 | 85 | 84 | 45-138 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 86 | 90 | 70-130 | 5 |
| Tetrachloroethene | ug/L (ppb) | 10 | 106 | 106 | 70-130 | 0 |
| Dibromochloromethane | ug/L (ppb) | 10 | 95 | 93 | 60-148 | 2 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 98 | 98 | 70-130 | 0 |
| Chlorobenzene | ug/L (ppb) | 10 | 92 | 90 | 70-130 | 2 |
| Ethylbenzene | ug/L (ppb) | 10 | 97 | 97 | 70-130 | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 98 | 101 | 70-130 | 3 |
| m,p-Xylene | ug/L (ppb) | 20 | 98 | 97 | 70-130 | 1 |
| o-Xylene | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| Styrene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |
| Isopropylbenzene | ug/L (ppb) | 10 | 95 | 96 | 70-130 | 1 |
| Bromoform | ug/L (ppb) | 10 | 100 | 97 | 69-138 | 3 |
| n-Propylbenzene | ug/L (ppb) | 10 | 91 | 87 | 70-130 | 4 |
| Bromobenzene | ug/L (ppb) | 10 | 100 | 98 | 70-130 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 93 | 88 | 70-130 | 6 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 94 | 98 | 70-130 | 4 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 90 | 89 | 70-130 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 90 | 87 | 70-130 | 3 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 91 | 90 | 70-130 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 92 | 90 | 70-130 | 2 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 91 | 89 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 94 | 90 | 70-130 | 4 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 95 | 93 | 70-130 | 2 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 98 | 96 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 97 | 94 | 70-130 | 3 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 94 | 94 | 70-130 | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 89 | 89 | 70-130 | 0 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 94 | 92 | 70-130 | 2 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 100 | 94 | 70-130 | 6 |
| Naphthalene | ug/L (ppb) | 10 | 86 | 85 | 70-130 | 1 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 95 | 92 | 70-130 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 65 | 71 | 58-93 | 9 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 64 | 70 | 63-97 | 9 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 66 | 70 | 62-99 | 6 |
| Acenaphthylene | ug/L (ppb) | 10 | 81 | 83 | 68-111 | 2 |
| Acenaphthene | ug/L (ppb) | 10 | 78 | 81 | 67-104 | 4 |
| Fluorene | ug/L (ppb) | 10 | 79 | 82 | 70-130 | 4 |
| Phenanthrene | ug/L (ppb) | 10 | 83 | 84 | 70-130 | 1 |
| Anthracene | ug/L (ppb) | 10 | 86 | 86 | 70-130 | 0 |
| Fluoranthene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| Pyrene | ug/L (ppb) | 10 | 90 | 89 | 70-130 | 1 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 91 | 93 | 70-130 | 2 |
| Chrysene | ug/L (ppb) | 10 | 93 | 95 | 70-130 | 2 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 97 | 99 | 70-130 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 99 | 100 | 70-130 | 1 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 96 | 96 | 70-130 | 0 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 96 | 100 | 70-130 | 4 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 95 | 100 | 70-130 | 5 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 94 | 97 | 68-131 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 405176-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 2.48 | 94 b | 93 b | 75-125 | 1 b |
| Lead | ug/L (ppb) | 10 | <1 | 94 | 97 | 75-125 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 87 | 80-120 |
| Lead | ug/L (ppb) | 10 | 92 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 405124-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <1 | 90 | 92 | 75-125 | 2 |
| Lead | ug/L (ppb) | 10 | <1 | 96 | 97 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 89 | 80-120 |
| Lead | ug/L (ppb) | 10 | 99 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 405176-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 26.8 | 56 b | 64 b | 75-125 | 13 b |
| Lead | ug/L (ppb) | 10 | <1 | 88 | 85 | 75-125 | 3 |
| Manganese | ug/L (ppb) | 20 | 3,290 | 0 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 90 | 80-120 |
| Lead | ug/L (ppb) | 10 | 107 | 80-120 |
| Manganese | ug/L (ppb) | 20 | 102 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/24

Date Received: 05/09/24

Project: Whidbey Marine Auto, F&BI 405176

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 405142-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | Mg/L (ppm) | <5 | <5 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 102 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

405176

SAMPLE CHAIN OF CUSTODY

05/09/24

K5/F3/VW2

Report To Heather Good

Company Haley & Aldrich

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyaldrich.com

SAMPLERS (signature) [Signature]

PROJECT NAME Whidbey Marine arts PO # _____

REMARKS _____

INVOICE TO _____

Project specific RLS? - Yes / No _____

Page # 1 of 1

TURNAROUND TIME

☒ Standard turnaround

☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other _____

Default: Dispose after 30 days

| | | | | | | | ANALYSES REQUESTED | | | | | | | | | | | |
|-------------------|--------------|--------------|-----------------|--------------|--------------|--|--------------------|----------|--|---|---------------|---------------|---|--|-----|--------------|---------------|--|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | | NWTPH-Dx | NWTPH-Gx | MEE BTEX EPA 8021 | sulfide NWTPH-HClD | VOCs EPA 8260 | PAHs EPA 8270 | Anions & Alkalinity PCBs EPA 8082 | As&Pb total & dissolved | TSS | dissolved Mn | Ammonia & TOC | Notes |
| MW-25 | 01A-J | 5/8/24 | 1410 | W | 10 | | X | X | | | X | X | | X | X | | | Short hold |
| MW-12D | 02A-Q | 5/8/24 | 1410 | W | 17 | | | | X | X | | | X | | X | X | | fine for anion |
| MW-21D | 03 ↓ | 5/8/24 | 1040 | W | 17 | | | | X | X | | | X | | X | X | | |
| MW-19D | " | " | 1420 | W | " | | | | X | | | | | | | | | MW-25 is |
| MW-85 | 04A-Q | " | 1035 | W | 17 | | | | X | X | | | X | | | X | X | missing dissolved metals bottle, PAH bottle is low |
| MW-65 | 05A-K | " | 1215 | W | 11 | | | | | | | | | | | | | |
| MW-17D | 06A-Q | " | 1650 | W | 17 | | | | X | X | | | X | | | X | X | |
| FD-01 | 07 ↓ | 5/8/24 | 1200 | W | 17 | | X | X | | | X | X | X | X | X | X | X | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Zach Stephens

H&A

5/9/24

0715

Received by: [Signature]

V1014

FB1

5-9-24

15:30

Relinquished by: _____

Samples received at 4 °C

Received by: _____

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 405176 CLIENT HRA

INITIALS/ rr
DATE: 5-9-24

If custody seals are present on cooler, are they intact? ☐ NA ☒ YES ☐ NO

Cooler/Sample temperature

4 °C

Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?

☐ Over the Counter

☒ Picked up by F&BI

☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)?

☒ YES ☐ NO

*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below)

☐ YES ☒ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)

☒ YES ☐ NO

Were appropriate sample containers used?

☒ YES

☐ NO

☐ Unknown

If custody seals are present on samples, are they intact?

☒ NA

☐ YES

☐ NO

Are samples requiring no headspace, headspace free?

☐ NA

☒ YES

☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's ☒ Yes ☐ No

Date Sampled

☐ Yes ☒ No

Sample ID 02A, 02B do not have date ☒ Not on COC/label

Time Sampled

☒ Yes ☐ No

on ☐ Not on COC/label

of Containers

☒ Yes ☐ No

☐ Not on COC/label

Relinquished

☒ Yes ☐ No

Requested analysis

☒ Yes ☐ On Hold

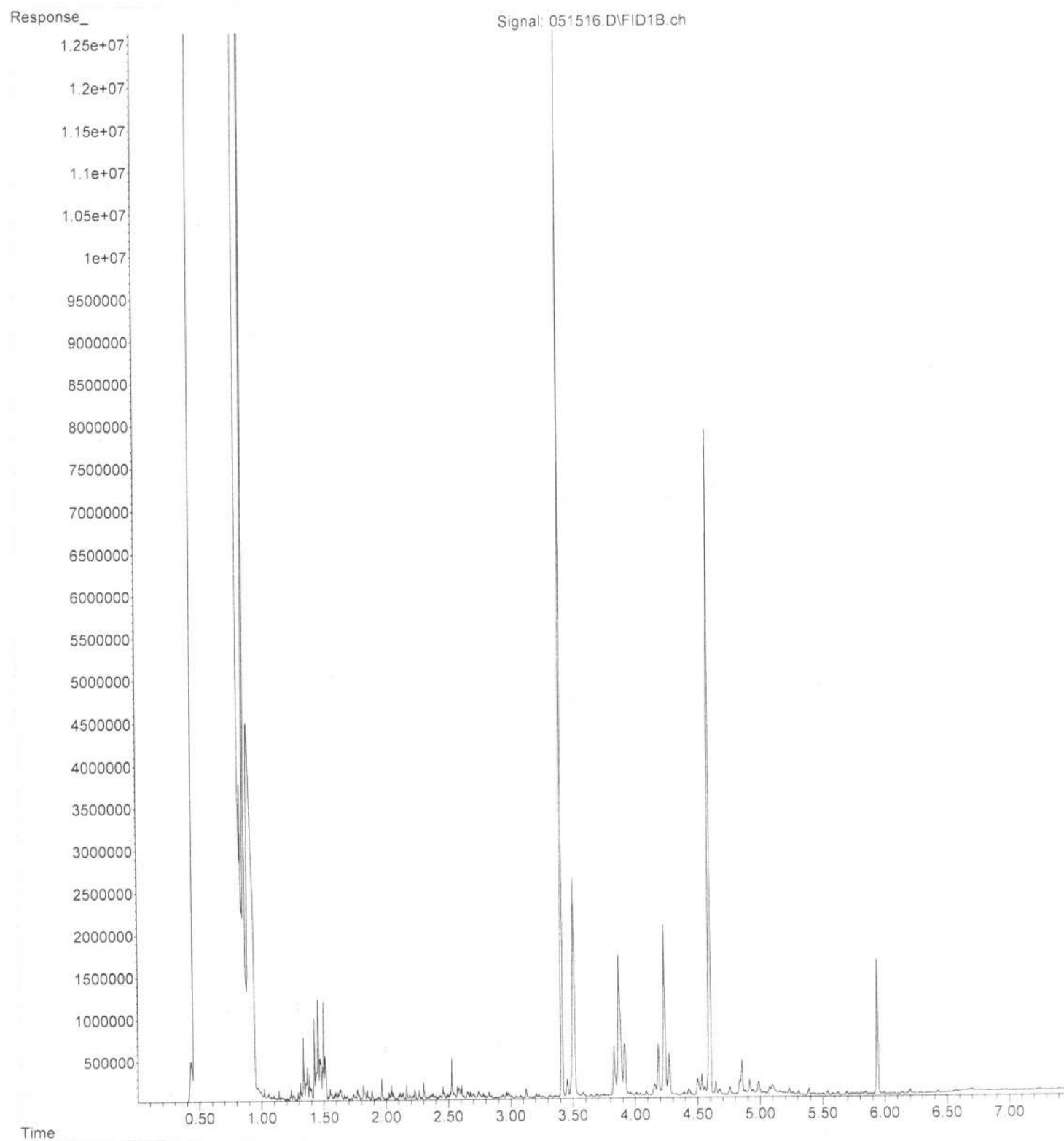
Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

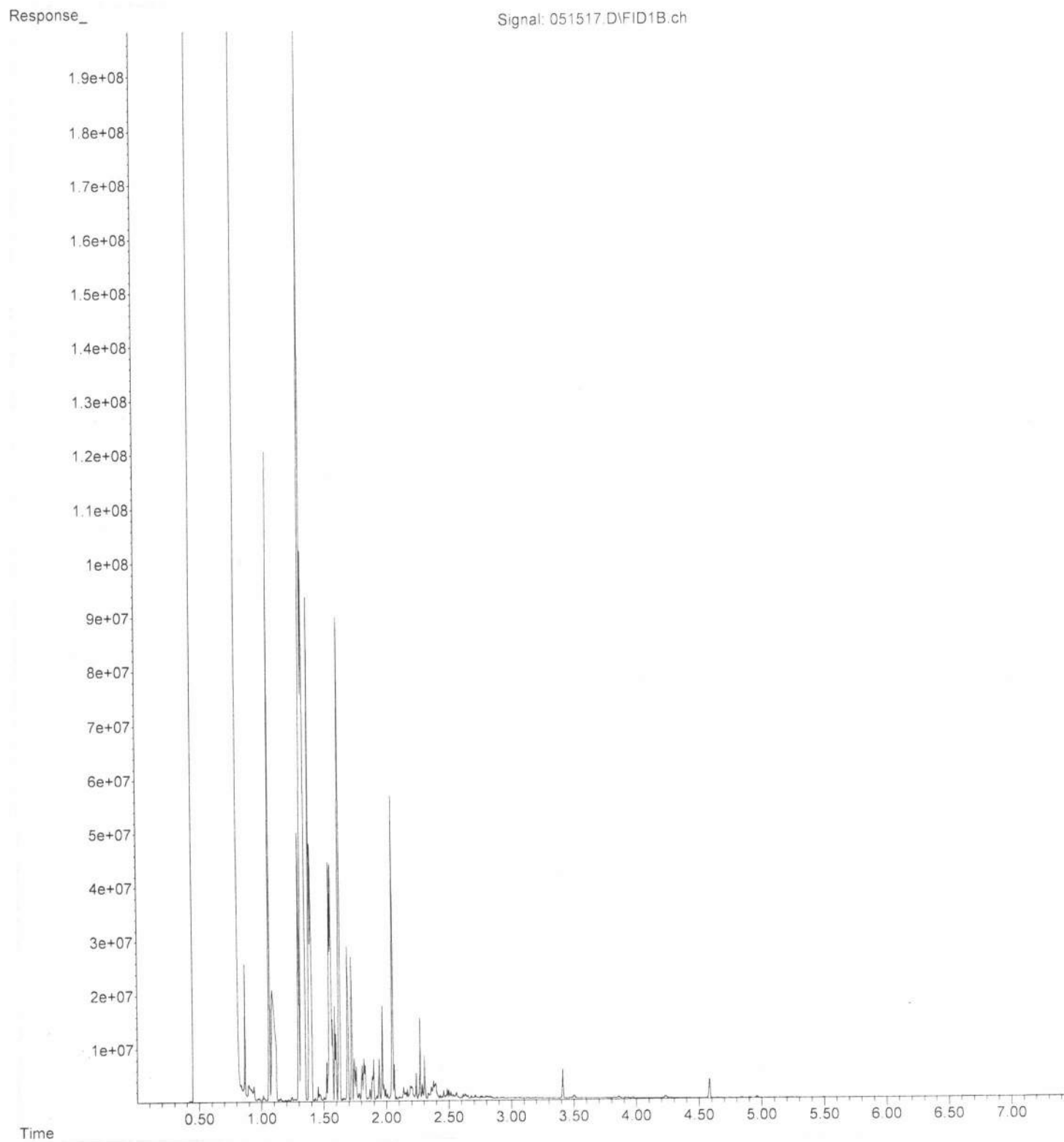
File :P:\Proc_GC14\05-15-24\051516.D
Operator : TL
Acquired : 15 May 2024 01:00 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-01
Misc Info :
Vial Number: 18

ERR



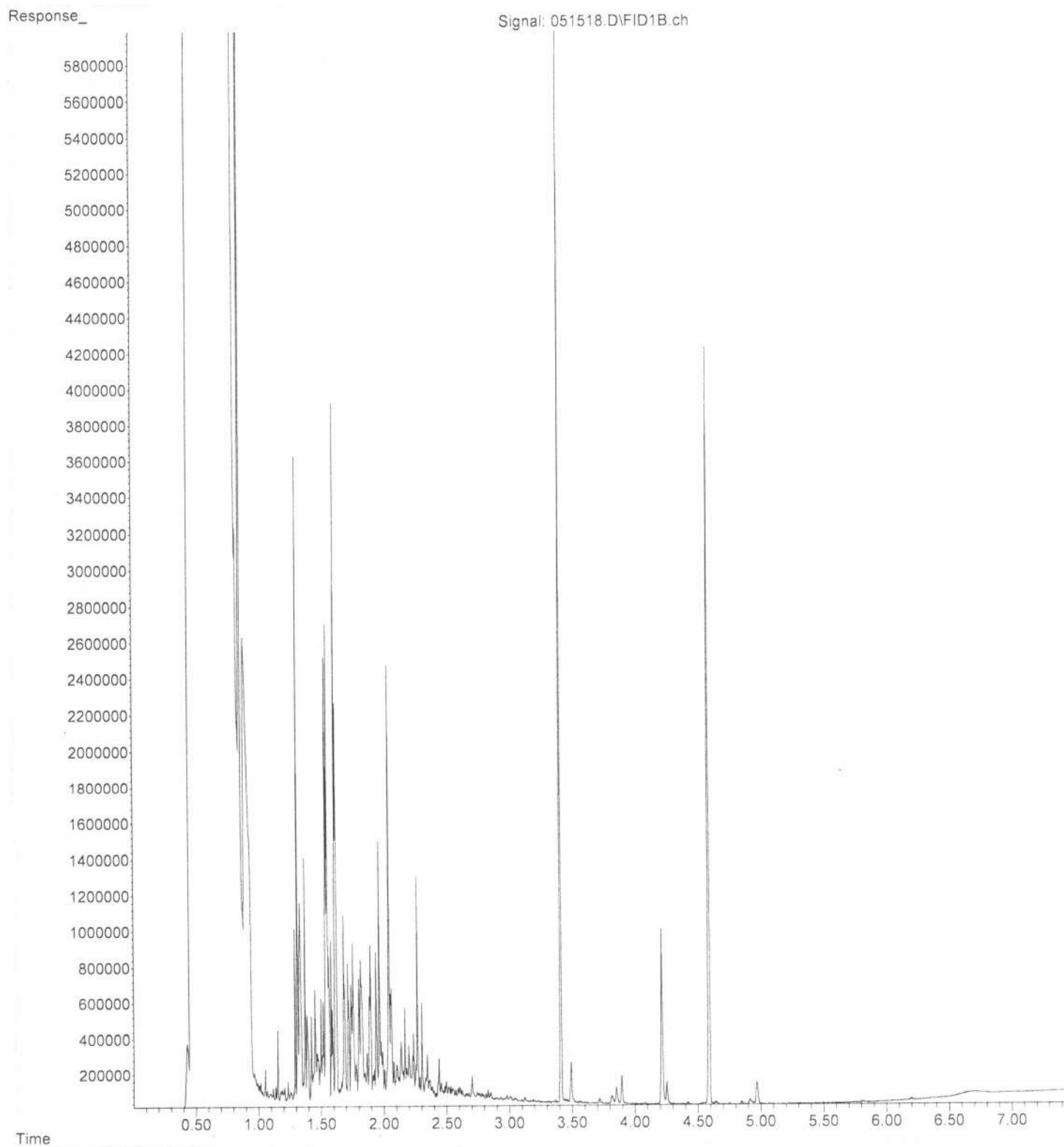
File : P:\Proc_GC14\05-15-24\051517.D
Operator : TL
Acquired : 15 May 2024 01:12 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-02
Misc Info :
Vial Number: 19

ERR



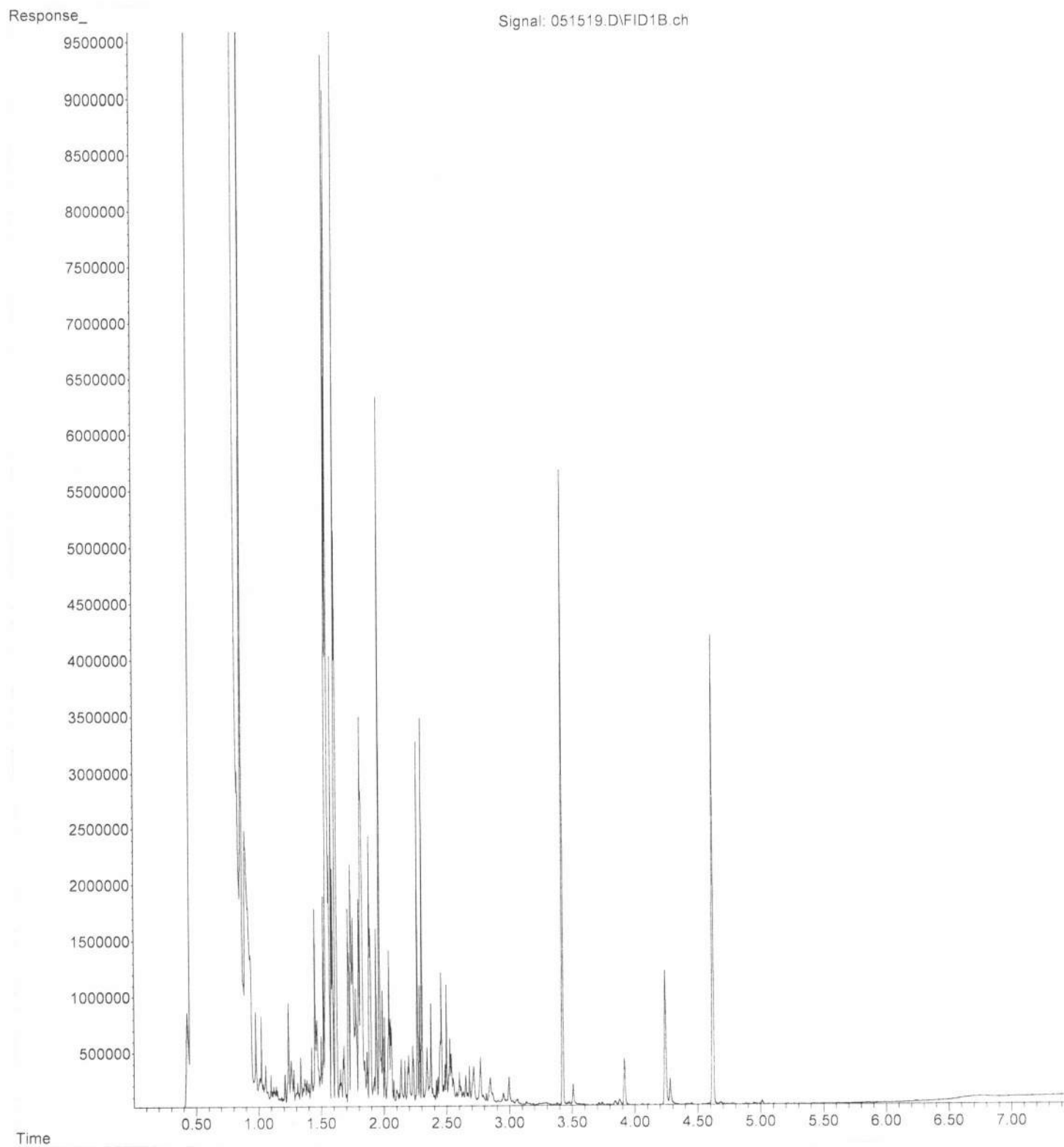
File :P:\Proc_GC14\05-15-24\051518.D
Operator : TL
Acquired : 15 May 2024 01:23 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-03
Misc Info :
Vial Number: 20

ERR



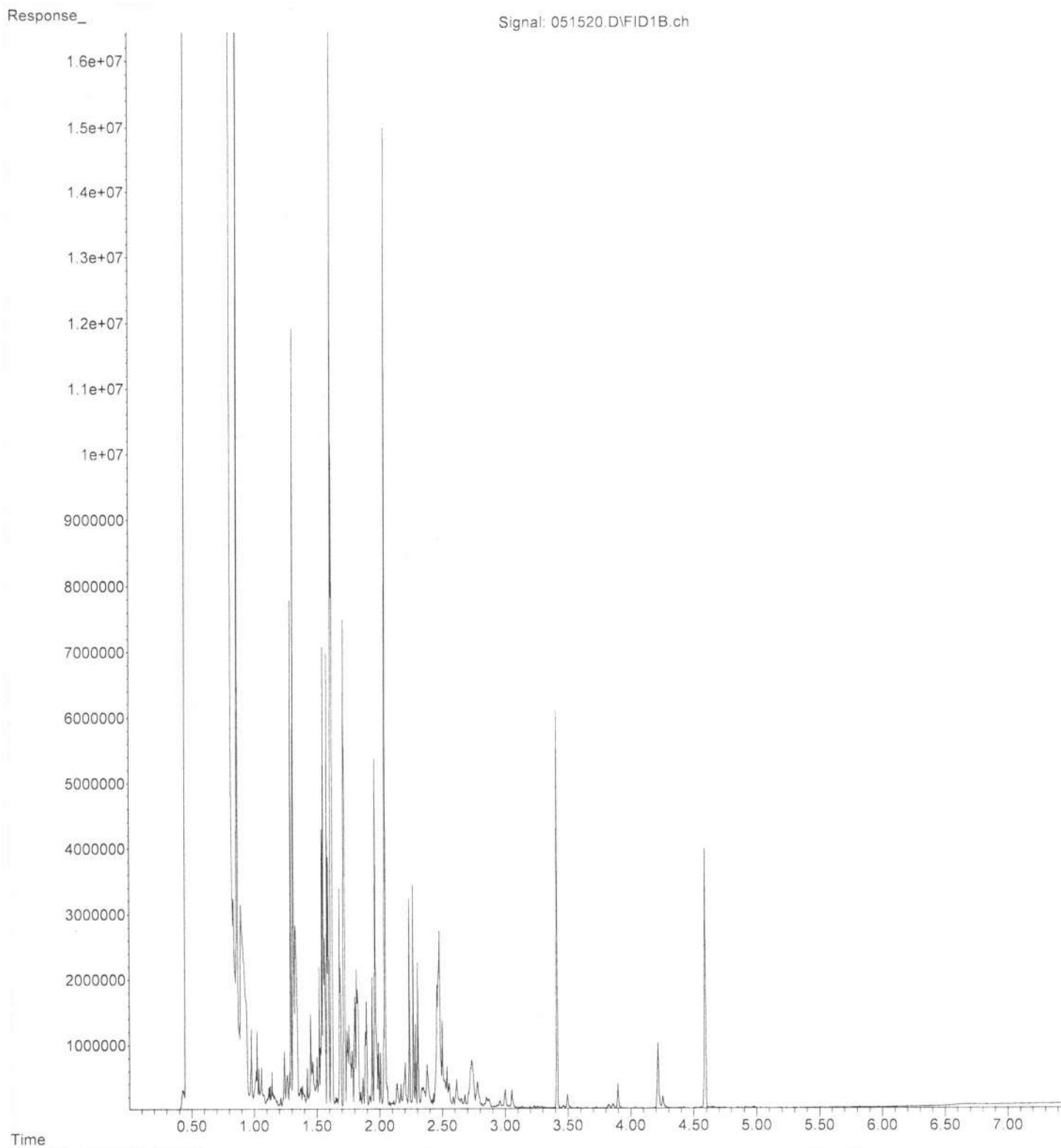
File :P:\Proc_GC14\05-15-24\051519.D
Operator : TL
Acquired : 15 May 2024 01:35 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-04
Misc Info :
Vial Number: 21

ERR



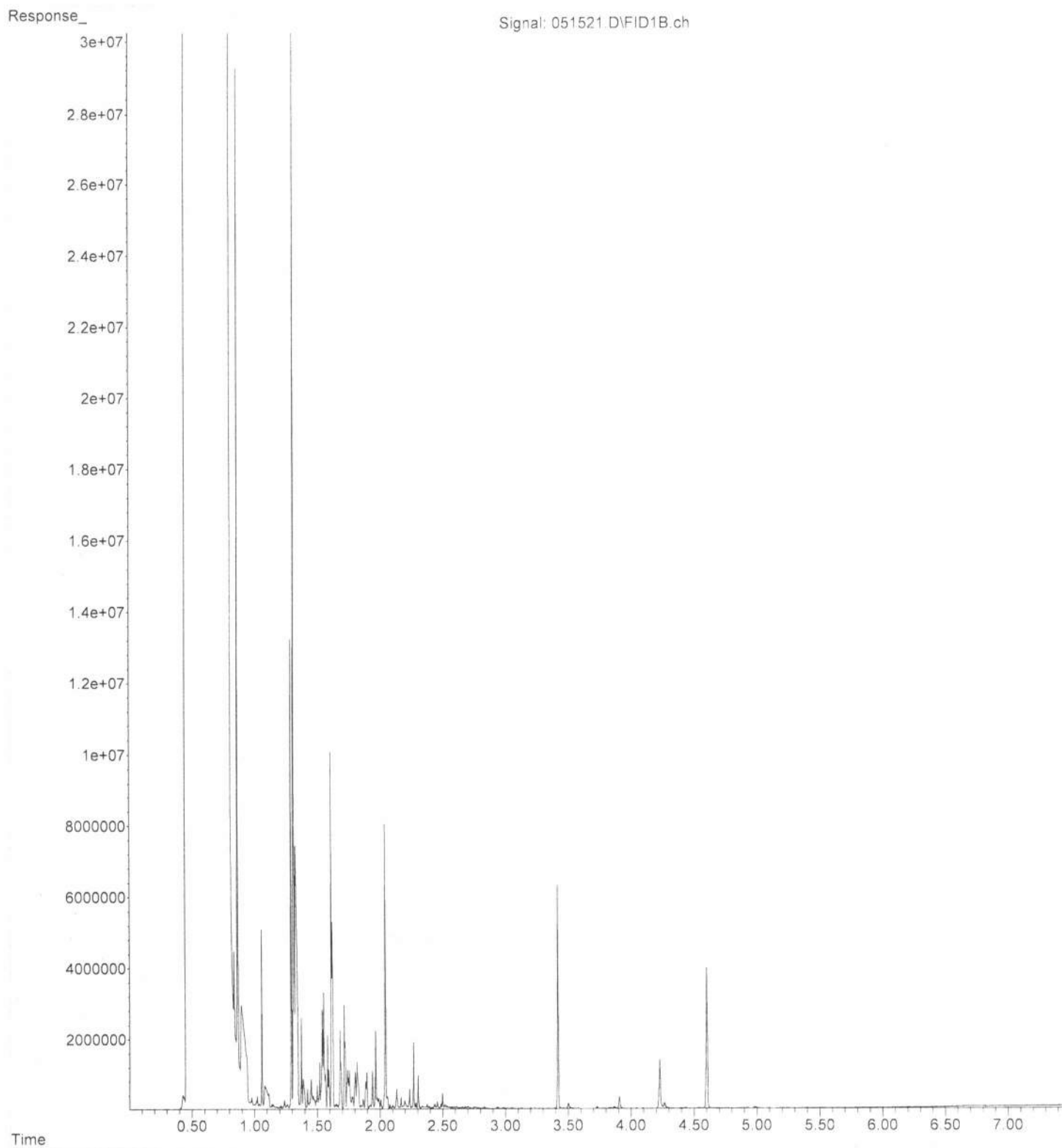
File :P:\Proc_GC14\05-15-24\051520.D
Operator : TL
Acquired : 15 May 2024 01:47 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-05
Misc Info :
Vial Number: 22

ERR



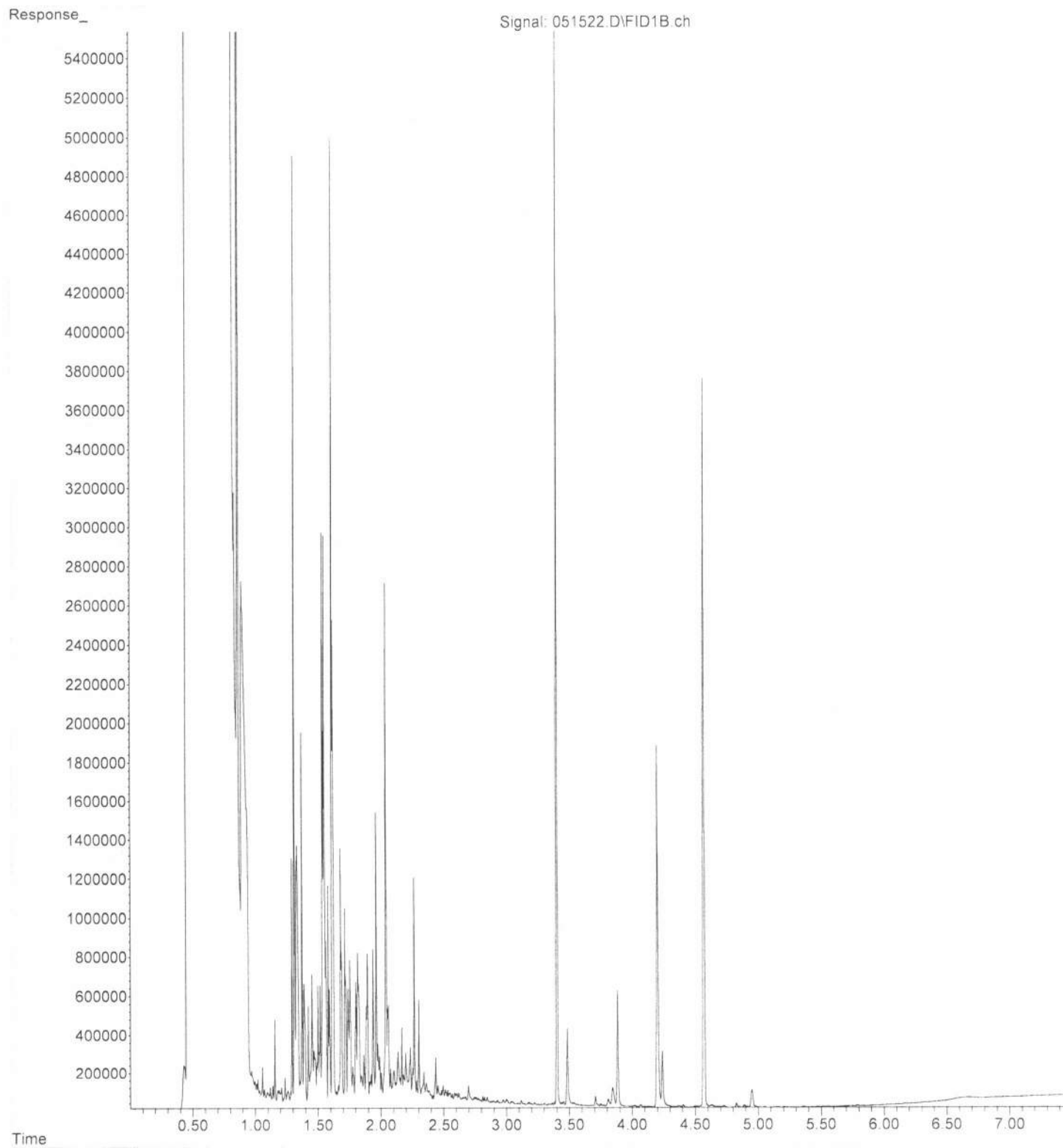
File :P:\Proc_GC14\05-15-24\051521.D
Operator : TL
Acquired : 15 May 2024 01:59 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-06
Misc Info :
Vial Number: 23

ERR



File :P:\Proc_GC14\05-15-24\051522.D
Operator : TL
Acquired : 15 May 2024 02:11 pm using AcqMethod DX.M
Instrument : GC14
Sample Name: 405176-07
Misc Info :
Vial Number: 24

ERR





3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 405176, E-188
Work Order Number: 2405202

May 20, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 5/10/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G
Dissolved Gases by RSK-175
Ion Chromatography by EPA 300.0
Total Alkalinity by SM 2320B
Total Organic Carbon by SM 5310C
Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com



Date: 05/20/2024

CLIENT: Friedman & Bruya
Project: 405176
Work Order: 2405202

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2405202-001 | MW-12D | 05/08/2024 2:10 PM | 05/10/2024 11:30 AM |
| 2405202-002 | MW-21D | 05/08/2024 10:40 AM | 05/10/2024 11:30 AM |
| 2405202-003 | MW-8S | 05/08/2024 10:35 AM | 05/10/2024 11:30 AM |
| 2405202-004 | MW-17D | 05/08/2024 4:50 PM | 05/10/2024 11:30 AM |
| 2405202-005 | FD-01 | 05/08/2024 12:00 PM | 05/10/2024 11:30 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 405176

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 405176

Lab ID: 2405202-001

Client Sample ID: MW-12D

Collection Date: 5/8/2024 2:10:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|---------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | 0.00686 | 0.00500 | | mg/L | 1 | 5/16/2024 12:39:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:39:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:39:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43960 | | Analyst: SS |
| Chloride | 11.2 | 2.00 | D | mg/L | 10 | 5/17/2024 6:28:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 5/10/2024 1:39:00 PM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 5/10/2024 1:39:00 PM |
| Sulfate | 1.80 | 1.00 | | mg/L | 1 | 5/10/2024 9:58:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 12.5 | 0.700 | | mg/L | 1 | 5/15/2024 12:26:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91785 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 262 | 2.50 | | mg/L | 1 | 5/15/2024 4:40:20 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 12:51:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.135 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

CLIENT: Friedman & Bruya
Project: 405176

Lab ID: 2405202-002

Client Sample ID: MW-21D

Collection Date: 5/8/2024 10:40:00 AM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | ND | 0.00500 | | mg/L | 1 | 5/16/2024 12:42:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:42:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:42:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43868 | | Analyst: FG |
| Chloride | 58.3 | 2.00 | D | mg/L | 10 | 5/15/2024 8:52:00 PM |
| Nitrite (as N) | ND | 0.200 | H | mg/L | 1 | 5/11/2024 4:01:00 AM |
| Nitrate (as N) | 1.52 | 0.200 | H | mg/L | 1 | 5/11/2024 4:01:00 AM |
| Sulfate | 7.55 | 1.00 | | mg/L | 1 | 5/11/2024 4:01:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 2.06 | 0.700 | | mg/L | 1 | 5/15/2024 12:47:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91785 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 127 | 2.50 | | mg/L | 1 | 5/15/2024 4:40:20 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 12:55:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.0720 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

CLIENT: Friedman & Bruya
Project: 405176

Lab ID: 2405202-003

Collection Date: 5/8/2024 10:35:00 AM

Client Sample ID: MW-8S

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | ND | 0.00500 | | mg/L | 1 | 5/16/2024 12:46:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:46:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:46:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43905 | | Analyst: FG |
| Chloride | 23.0 | 2.00 | D | mg/L | 10 | 5/14/2024 4:18:00 AM |
| Nitrite (as N) | ND | 0.200 | H | mg/L | 1 | 5/11/2024 4:30:00 AM |
| Nitrate (as N) | 3.96 | 2.00 | DH | mg/L | 10 | 5/14/2024 4:18:00 AM |
| Sulfate | 14.6 | 10.0 | D | mg/L | 10 | 5/14/2024 4:18:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 2.62 | 0.700 | | mg/L | 1 | 5/15/2024 2:06:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91785 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 169 | 2.50 | | mg/L | 1 | 5/15/2024 4:40:20 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 1:00:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.0865 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

CLIENT: Friedman & Bruya
Project: 405176

Lab ID: 2405202-004

Client Sample ID: MW-17D

Collection Date: 5/8/2024 4:50:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | 0.505 | 0.0200 | D | mg/L | 4 | 5/16/2024 1:20:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:48:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:48:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43960 | | Analyst: SS |
| Chloride | 22.9 | 2.00 | D | mg/L | 10 | 5/17/2024 6:51:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 5/10/2024 1:11:00 PM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 5/10/2024 1:11:00 PM |
| Sulfate | 11.8 | 1.00 | | mg/L | 1 | 5/10/2024 10:27:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 1.58 | 0.700 | | mg/L | 1 | 5/15/2024 2:36:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91785 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 192 | 2.50 | | mg/L | 1 | 5/15/2024 4:40:20 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 1:15:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.0574 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

CLIENT: Friedman & Bruya
Project: 405176

Lab ID: 2405202-005
Client Sample ID: FD-01

Collection Date: 5/8/2024 12:00:00 PM
Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|---------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R91779 | | Analyst: LB |
| Methane | 0.00601 | 0.00500 | | mg/L | 1 | 5/16/2024 12:52:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:52:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 5/16/2024 12:52:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 43868 | | Analyst: FG |
| Chloride | 55.7 | 2.00 | D | mg/L | 10 | 5/15/2024 9:16:00 PM |
| Nitrite (as N) | ND | 0.200 | H | mg/L | 1 | 5/11/2024 4:58:00 AM |
| Nitrate (as N) | 1.52 | 0.200 | H | mg/L | 1 | 5/11/2024 4:58:00 AM |
| Sulfate | 7.68 | 1.00 | | mg/L | 1 | 5/11/2024 4:58:00 AM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R91680 | | Analyst: FG |
| Total Organic Carbon | 1.88 | 0.700 | | mg/L | 1 | 5/15/2024 3:07:00 AM |
| <u>Total Alkalinity by SM 2320B</u> | | | | Batch ID: R91785 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 127 | 2.50 | | mg/L | 1 | 5/15/2024 4:40:20 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 43897 | | Analyst: SS |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 5/14/2024 1:20:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R91640 | | Analyst: SS |
| Sulfide | 0.0641 | 0.0500 | | mg/L | 1 | 5/13/2024 3:46:48 PM |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT
Total Alkalinity by SM 2320B

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R91785 | SampType: MBLK | Units: mg/L | | | | Prep Date: 5/15/2024 | | | | RunNo: 91785 | | |
| Client ID: MBLKW | Batch ID: R91785 | | | | | Analysis Date: 5/15/2024 | | | | SeqNo: 1914967 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R91785 | SampType: LCS | Units: mg/L | | | | Prep Date: 5/15/2024 | | | | RunNo: 91785 | | |
| Client ID: LCSW | Batch ID: R91785 | | | | | Analysis Date: 5/15/2024 | | | | SeqNo: 1914968 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 108 | 2.50 | 100.0 | 0 | 108 | 89.7 | 129.7 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|--|
| Sample ID: 2405211-001BDUP | SampType: DUP | Units: mg/L | | | | Prep Date: 5/15/2024 | | | | RunNo: 91785 | | |
| Client ID: BATCH | Batch ID: R91785 | | | | | Analysis Date: 5/15/2024 | | | | SeqNo: 1914970 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Alkalinity, Total (As CaCO3) | 102 | 2.50 | | | | | | 101.8 | 0.409 | 20 | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-43897 | SampType: MBLK | Units: mg/L | | | Prep Date: 5/14/2024 | | | | RunNo: 91676 | | |
| Client ID: MBLKW | Batch ID: 43897 | Analysis Date: 5/14/2024 | | | | | | | SeqNo: 1912150 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: LCS-43897 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: LCSW | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912151 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.458 0.150 0.5000 0 91.6 83.7 113.7

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2405136-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912153 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2405136-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | Analysis Date: 5/14/2024 | | | SeqNo: 1912154 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2405136-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | |
| Client ID: BATCH | | Batch ID: 43897 | | | Analysis Date: 5/14/2024 | | | | SeqNo: 1912155 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 12.2 150 0 30 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| Sample ID: 2405202-003DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-8S | Batch ID: 43897 | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912168 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.150 | | | | | | 0 | | 30 | |

| Sample ID: 2405202-003DMS | SampType: MS | Units: mg/L | | | Prep Date: 5/14/2024 | | | RunNo: 91676 | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-8S | Batch ID: 43897 | | | | Analysis Date: 5/14/2024 | | | SeqNo: 1912169 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Nitrogen, Ammonia | ND | 0.150 | 0.5000 | 0 | 0 | 12.2 | 150 | | | | S |

NOTES:

S - Spike recovery indicates a possible matrix effect.

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: MB-43867 | SampType: MBLK | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91768 | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MBLKW | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | SeqNo: 1914552 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | | |

| Sample ID: 2405202-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91768 | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MW-12D | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | SeqNo: 1914555 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | | |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | | |

| Sample ID: 2405202-001BMS | SampType: MS | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91768 | | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MW-12D | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | SeqNo: 1914556 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrite (as N) | 0.710 | 0.200 | 0.7500 | 0 | 94.7 | 80 | 120 | | | | | |
| Nitrate (as N) | 0.758 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | | | | | |

| Sample ID: 2405202-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91768 | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: MW-12D | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | SeqNo: 1914557 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrite (as N) | 0.750 | 0.200 | 0.7500 | 0 | 100 | 80 | 120 | 0.7100 | 5.48 | 20 | | |
| Nitrate (as N) | 0.797 | 0.200 | 0.7500 | 0 | 106 | 80 | 120 | 0.7580 | 5.02 | 20 | | |

| Sample ID: LCS-43867 | SampType: LCS | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91768 | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Client ID: LCSW | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | SeqNo: 1914558 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Nitrite (as N) | 0.711 | 0.200 | 0.7500 | 0 | 94.8 | 90 | 110 | | | | | |
| Nitrate (as N) | 0.724 | 0.200 | 0.7500 | 0 | 96.5 | 90 | 110 | | | | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-43867 | | SampType: LCS | | | Units: mg/L | | Prep Date: 5/10/2024 | | | RunNo: 91768 | | |
| Client ID: LCSW | | Batch ID: 43867 | | | Analysis Date: 5/10/2024 | | | SeqNo: 1914558 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| Sample ID: LCS-43868 | SampType: LCS | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | Batch ID: 43868 | | | | Analysis Date: 5/10/2024 | | | SeqNo: 1911131 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.737 | 0.200 | 0.7500 | 0 | 98.3 | 90 | 110 | | | | |
| Nitrite (as N) | 0.742 | 0.200 | 0.7500 | 0 | 98.9 | 90 | 110 | | | | |
| Nitrate (as N) | 0.736 | 0.200 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |
| Sulfate | 3.55 | 1.00 | 3.750 | 0 | 94.7 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: MB-43868 | SampType: MBLK | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
| Client ID: MBLKW | Batch ID: 43868 | | | | Analysis Date: 5/10/2024 | | | SeqNo: 1911133 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| Sample ID: 2405211-003BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/10/2024 | | | RunNo: 91620 | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | Batch ID: 43868 | | | | Analysis Date: 5/11/2024 | | | SeqNo: 1911142 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 18.6 | 0.200 | | | | | | 18.50 | 0.275 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | 6.94 | 1.00 | | | | | | 6.912 | 0.447 | 20 | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2405211-003BMS | SampType: MS | Units: mg/L | | Prep Date: 5/10/2024 | RunNo: 91620 | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 43868 | | | Analysis Date: 5/11/2024 | SeqNo: 1911143 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 18.8 | 0.200 | 0.7500 | 18.50 | 41.1 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.736 | 0.200 | 0.7500 | 0 | 98.1 | 80 | 120 | | | | |
| Nitrate (as N) | 0.745 | 0.200 | 0.7500 | 0 | 99.3 | 80 | 120 | | | | |
| Sulfate | 10.7 | 1.00 | 3.750 | 6.912 | 102 | 80 | 120 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: LCS-43905 | SampType: LCS | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | SeqNo: 1912049 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.729 | 0.200 | 0.7500 | 0 | 97.2 | 90 | 110 | | | | |
| Nitrate (as N) | 0.725 | 0.200 | 0.7500 | 0 | 96.7 | 90 | 110 | | | | |
| Sulfate | 3.54 | 1.00 | 3.750 | 0 | 94.4 | 90 | 110 | | | | |

| Sample ID: MB-43905 | SampType: MBLK | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|----------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | SeqNo: 1912051 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| Sample ID: 2405118-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | SeqNo: 1912057 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 7.47 | 0.200 | | | | | | 7.474 | 0 | 20 | E |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Sulfate | 13.1 | 1.00 | | | | | | 13.28 | 1.14 | 20 | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2405118-001BMS | SampType: MS | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | SeqNo: 1912058 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.5 | 80 | 120 | | | | ES |
| Nitrate (as N) | 0.725 | 0.200 | 0.7500 | 0 | 96.7 | 80 | 120 | | | | |
| Sulfate | 17.1 | 1.00 | 3.750 | 13.28 | 102 | 80 | 120 | | | | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2405118-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | Analysis Date: 5/13/2024 | SeqNo: 1912059 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 8.07 | 0.200 | 0.7500 | 7.474 | 79.7 | 80 | 120 | 8.070 | 0.0248 | 20 | ES |
| Nitrate (as N) | 0.727 | 0.200 | 0.7500 | 0 | 96.9 | 80 | 120 | 0.7250 | 0.275 | 20 | |
| Sulfate | 16.9 | 1.00 | 3.750 | 13.28 | 95.2 | 80 | 120 | 17.10 | 1.46 | 20 | |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

| Sample ID: 2405200-002CDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | Analysis Date: 5/14/2024 | SeqNo: 1912068 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 5.36 | 0.200 | | | | | | 5.369 | 0.0745 | 20 | |
| Nitrate (as N) | 0.977 | 0.200 | | | | | | 0.9910 | 1.42 | 20 | |
| Sulfate | 5.69 | 1.00 | | | | | | 5.716 | 0.456 | 20 | |

| Sample ID: 2405200-002CMS | SampType: MS | Units: mg/L | | Prep Date: 5/13/2024 | RunNo: 91669 | | | | | | |
|----------------------------------|------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 43905 | | | Analysis Date: 5/14/2024 | SeqNo: 1912069 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 6.01 | 0.200 | 0.7500 | 5.369 | 85.7 | 80 | 120 | | | | E |
| Nitrate (as N) | 1.73 | 0.200 | 0.7500 | 0.9910 | 98.7 | 80 | 120 | | | | |
| Sulfate | 9.26 | 1.00 | 3.750 | 5.716 | 94.5 | 80 | 120 | | | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT
Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-43960 | SampType: LCS | Units: mg/L | | | | Prep Date: 5/17/2024 | | | RunNo: 91816 | | |
| Client ID: LCSW | Batch ID: 43960 | | | | | Analysis Date: 5/17/2024 | | | SeqNo: 1915444 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.722 | 0.200 | 0.7500 | 0 | 96.3 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|----------|------|
| Sample ID: MB-43960 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/17/2024 | | RunNo: 91816 | | |
| Client ID: MBLKW | | Batch ID: 43960 | | | Analysis Date: 5/17/2024 | | | | SeqNo: 1915446 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.200 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2405328-003ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/17/2024 | | | RunNo: 91816 | | |
| Client ID: BATCH | | Batch ID: 43960 | | | Analysis Date: 5/18/2024 | | | | SeqNo: 1915467 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Chloride | 44.3 | 2.00 | | | | | | 45.16 | 2.01 | 20 | D | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|----------|------|
| Sample ID: 2405328-003AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/17/2024 | | RunNo: 91816 | | |
| Client ID: BATCH | | Batch ID: 43960 | | | Analysis Date: 5/18/2024 | | | | SeqNo: 1915468 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 51.4 | 2.00 | 7.500 | 45.16 | 83.2 | 80 | 120 | | | | D |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|---------------------|--------------------|
| Sample ID: MB-R91640 | | SampType: MBLK | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91640 | |
| Client ID: MBLKW | | Batch ID: R91640 | | Analysis Date: 5/13/2024 | | SeqNo: 1911464 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |
| Sulfide | ND | 0.0500 | | | | | | | |

| | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|---------------------|--------------------|
| Sample ID: LCS-R91640 | | SampType: LCS | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91640 | |
| Client ID: LCSW | | Batch ID: R91640 | | Analysis Date: 5/13/2024 | | SeqNo: 1911465 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |
| Sulfide | 0.190 | 0.0500 | 0.2000 | 0 | 94.9 | 80 | 120 | | |

| | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|---------------------|--------------------|
| Sample ID: 2405116-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91640 | |
| Client ID: BATCH | | Batch ID: R91640 | | Analysis Date: 5/13/2024 | | SeqNo: 1911467 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |
| Sulfide | ND | 0.0500 | | | | | | 0 | 20 |

| | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|---------------------|--------------------|
| Sample ID: 2405116-001AMS | | SampType: MS | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91640 | |
| Client ID: BATCH | | Batch ID: R91640 | | Analysis Date: 5/13/2024 | | SeqNo: 1911468 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |
| Sulfide | 0.240 | 0.0500 | 0.2000 | 0.04024 | 99.9 | 80 | 120 | | |

| | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|---------------------------------|------|-----------------------------|-----------|---------------------|--------------------|
| Sample ID: 2405116-001AMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 5/13/2024 | | RunNo: 91640 | |
| Client ID: BATCH | | Batch ID: R91640 | | Analysis Date: 5/13/2024 | | SeqNo: 1911469 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD RPDLimit Qual |
| Sulfide | 0.247 | 0.0500 | 0.2000 | 0.04024 | 103 | 80 | 120 | 0.2400 | 2.72 20 |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405211-002CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911496 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2405211-002CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 5/13/2024 | | | RunNo: 91640 | | |
| Client ID: BATCH | | Batch ID: R91640 | | | Analysis Date: 5/13/2024 | | | SeqNo: 1911497 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.190 | 0.0500 | 0.2000 | 0.01643 | 86.7 | 80 | 120 | | | | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-91680 | SampType: MBLK | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: MBLKW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912582 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-91680 | SampType: LCS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: LCSW | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912583 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.94 | 0.700 | 5.000 | 0 | 98.7 | 90.6 | 119 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|--|
| Sample ID: 2405160-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912585 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.46 | 0.700 | | | | | | 1.466 | 0.616 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMS | SampType: MS | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912586 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.65 | 0.700 | 5.000 | 1.466 | 104 | 74.4 | 117 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2405160-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 5/14/2024 | RunNo: 91680 | | | | | | | |
| Client ID: BATCH | Batch ID: R91680 | | | Analysis Date: 5/14/2024 | SeqNo: 1912587 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 6.29 | 0.700 | 5.000 | 1.466 | 96.5 | 74.4 | 117 | 6.654 | 5.64 | 30 | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|---------------------|-------|----------|------|
| Sample ID: 2405211-001DDUP | SampType: DUP | Units: mg/L | | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | | |
| Client ID: BATCH | Batch ID: R91680 | Analysis Date: 5/15/2024 | | | SeqNo: 1912600 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 2.80 | 0.700 | | | | | | 2.807 | 0.428 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|---------------------|------|----------|------|
| Sample ID: 2405211-001DMS | SampType: MS | Units: mg/L | | | Prep Date: 5/15/2024 | | | RunNo: 91680 | | | |
| Client ID: BATCH | Batch ID: R91680 | Analysis Date: 5/15/2024 | | | SeqNo: 1912601 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 7.53 | 0.700 | 5.000 | 2.807 | 94.4 | 74.4 | 117 | | | | |

Work Order: 2405202
CLIENT: Friedman & Bruya
Project: 405176

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R91779 | | SampType: LCS | | | Units: ppmv | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: LCSW | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | SeqNo: 1914871 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-----|---------|-------|---|------|------|-----|--|--|--|--|
| Methane | 935 | 0.00500 | 1,000 | 0 | 93.5 | 73.6 | 124 | | | | |
| Ethene | 918 | 0.0100 | 1,000 | 0 | 91.8 | 76.3 | 122 | | | | |
| Ethane | 936 | 0.0100 | 1,000 | 0 | 93.6 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R91779 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: MBLKW | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | | | SeqNo: 1914874 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2405200-001AREP | | SampType: REP | | | Units: mg/L | | Prep Date: 5/16/2024 | | | RunNo: 91779 | | |
| Client ID: BATCH | | Batch ID: R91779 | | | Analysis Date: 5/16/2024 | | | | | SeqNo: 1914853 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|---------|---------|--|--|--|--|--|----------|------|----|--|
| Methane | 0.00855 | 0.00500 | | | | | | 0.008822 | 3.12 | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2405202

Logged by: Morgan Wilson

Date Received: 5/10/2024 11:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐

eMail

☐

Phone

☐

Fax

☐

In Person

Regarding:

Client Instructions:

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.8 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Data Usability Summary Report

Project Name: Port of Seattle Terminal 86

Project Description: Groundwater Samples

Sample Date(s): November 2024

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Alliance Technical Group – Seattle, WA

Validation Performed by: Eric Hitchens

Validation Reviewed by: Katherine Miller

Validation Date: 13 December 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Groups (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers**
 - 2. Explanations**
 - 3. Glossary**
 - 4. Abbreviations**
 - 5. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 411091;
- 411132; and
- 411101.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the samples listed in Table 1. Method holding times are listed in Table 2. Issues noted with sample management are listed below:

- Custody seals were not used when samples were dropped off at the laboratory or service center by the field staff, submitted to a laboratory-provided courier, or when transported between subcontracted laboratories.

1.2 CASE NARRATIVE

The laboratory report case narratives included the following issues:

- The laboratory report case narratives listed various quality control (QC) exceedances (e.g., calibration exceedances) not evaluated by this review; thus, no qualifiers were applied to the reported results.
- SDG 411091: There was insufficient sample media to analyze sample MW-6S-4Q24 for 6020B total and dissolved metals. No qualifiers were applied.
- SDG 411132: Dissolved metals samples were filtered at Friedman & Bruya. No qualifiers were applied.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

- SDG 411132: The subcontracted laboratory flagged nitrite and nitrate analysis as out of hold time; however, they incorrectly logged the sample dates. The samples were, in fact, run within 48 hours of collection; therefore, no qualifiers were applied.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified.

1.5 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified QC limits.

1.6 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

| SDG # | Sample Type | Method | Analyte | RPD | Qualifier | Affected Samples |
|--------|-------------|--------|------------------------|-----|-----------|-----------------------------------|
| 411091 | LCS/LCSD | 8260D | Bromomethane | 21 | J/None | None, samples are non-detect (ND) |
| 411091 | LCS/LCSD | 8260D | 2-Butanone | 25 | | |
| 411091 | LCS/LCSD | 8260D | 2-Hexanone | 22 | | |
| 411132 | LCS/LCSD | 8260D | Bromomethane | 31 | | |
| 411132 | LCS/LCSD | 8260D | Trichlorofluoromethane | 31 | | |

1.7 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

| Sample Type | Lab Sample Number | Matrix Spike/Matrix Spike Duplicate Sample Client ID | Method(s) |
|-------------|-------------------|--|-------------|
| MS | MW-10D-4Q24MS | MW-10D-4Q24 | E300 |
| MS | MW-3S-4Q24MS | MW-3S-4Q24 | SM4500-NH3G |
| MSD | MW-3S-4Q24MSD | MW-3S-4Q24MS | SM4500-NH3G |
| MS | MW-3S-4Q24MS | MW-3S-4Q24 | SM4500-S2-D |
| MSD | MW-3S-4Q24MSD | MW-3S-4Q24MS | SM4500-S2-D |
| MS | MW-3S-4Q24MS | MW-3S-4Q24 | SM5310C |
| MSD | MW-3S-4Q24MSD | MW-3S-4Q24MS | SM5310C |

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

| Sample Type | Method | Parent Sample | Analyte | %R/RPD | Qualifier | Affected Samples |
|-------------|-------------|---------------|----------|--------|-----------|-----------------------|
| MS/MSD | SM4500-NH3G | MW-3S-4Q24 | Ammonia | 0/0 | J-/R | All samples in 411091 |
| MS | E300.0 | MW-10D-4Q24 | Chloride | 64.9 | None | None, dilution >5x |

1.8 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.9 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The following sample was used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL):

| Lab Sample Number | Laboratory Duplicate Sample Client ID | Method(s) |
|-------------------|---------------------------------------|-----------|
| 2411119-001DREP | MW-3S-4Q24 | RSK175 |

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

| Primary Sample ID | Duplicate Sample ID | Method(s) |
|-------------------|---------------------|---|
| MW-9D-4Q24 | FD-01-4Q24 | E300, E310.2, NWTPH-DX, NWTPH-GX, RSK175, SM 2540D, SM 4500-NH3G, SM 4500-S2-D, SM 5310C, USEPA 6020B, EPA 8260D, USEPA 8270E |

1.10 TARGET ANALYTE IDENTIFICATION

The laboratory flagged multiple sample results for sample chromatographic patterns not resembling the fuel standard used for quantitation; these data were qualified S as suspect.

1.11 PRECISION AND ACCURACY

[Refer to Section E 1.7.](#) Some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected except for rejected data in Table 3. A summary of qualifiers applied to this dataset is shown in Table 3.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - SSV Sub-slab Vapor
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)

- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

4. Abbreviations

| | | | |
|----------------|--|-----------------|--|
| %D | Percent Difference | MDL | Laboratory Method Detection Limit |
| %R | Percent Recovery | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| %RSD | Percent Relative Standard Deviation | NA | not applicable |
| %v/v | Percent volume by volume | ND | Non-Detect |
| 2s | 2 sigma | NFG | National Functional Guidelines |
| 4,4-DDT | 4 4-dichlorodiphenyltrichloroethane | NH ₃ | Ammonia |
| Abs Diff | Absolute Difference | NYSDEC | New York State Department of Environmental Conservation |
| amu | atomic mass unit | PAH | Polycyclic Aromatic Hydrocarbon |
| BPJ | Best Professional Judgement | PCB | Polychlorinated Biphenyl |
| BS | Blank Spike | PDS | Post-Digestion Spike |
| CCB | Continuing Calibration Blank | PEM | Performance Evaluation Mixture |
| CCV | Continuing Calibration Verification | PFAS | Per- and Polyfluoroalkyl Substances |
| CCVL | Continuing Calibration Verification Low | PFBA | Perfluorobutanoic Acid |
| COC | Chain of Custody | PFD | Perfluorodecalin |
| COM | Combined Isotope Calculation | PFOA | Perfluorooctanoic Acid |
| Cr (VI) | Hexavalent Chromium | PFOS | Perfluorooctane sulfonate |
| CRI | Collision Reaction Interface | PFPeA | Perfluoropentanoic Acid |
| DoD | Department of Defense | QAPP | Quality Assurance Project Plan |
| DQO | data quality objective | QC | Quality Control |
| DUSR | Data Usability Summary Report | QSM | Quality Systems Manual |
| EIS | Extraction Internal Standard | R ² | R-squared value |
| EMPC | Estimated Maximum Possible Concentration | Ra-226 | Radium-226 |
| FBK | Field Blank Contamination | Ra-228 | Radium-228 |
| FDP | Field Duplicate | RESC | Resolution Check Measure |
| GC | Gas Chromatograph | RL | Laboratory Reporting Limit |
| GC/MS | Gas Chromatography/Mass Spectrometry | RPD | Relative Percent Difference |
| GPC | Gel Permeation Chromatography | RRF | Relative Response Factor |
| H ₂ | Hydrogen gas | RT | Retention Time |
| HCl | Hydrochloric Acid | SAP | Sampling Analysis Plan |
| ICAL | Initial Calibration | SDG | Sample Delivery Group |
| ICB | Initial Calibration Blank | SIM | Selected ion monitoring |
| ICP/MS | Inductively Coupled Plasma/Mass Spectrometry | SOP | Standard Operating Procedure |
| ICV | Initial Calibration Verification | SPE | Solid-Phase Extraction |
| ICVL | Initial Calibration Verification Low | SVOC | Semi-Volatile Organic Compound |
| IPA | Isopropyl Alcohol | TCLP | Toxicity Characteristic Leaching Procedure |
| LC | Laboratory Control | TIC | Tentatively Identified Compound |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate | TKN | Total Kjeldahl Nitrogen |
| MBK | Method Blank Contamination | TPH | Total Petroleum Hydrocarbon |
| MDC | Minimum Detectable Concentration | TPU | Total Propagated Uncertainty |
| | | USEPA | U.S. Environmental Protection Agency |
| | | VOC | Volatile Organic Compound |
| | | WP | Work Plan |

5. Qualifiers

The qualifiers below are from the USEPA NFG and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<reporting limit [RL] or <method detection limit [MDL]), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected. The reported sample quantitation limit is approximate.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1 – Sample Information
Table 2 – Method Holding Times
Table 3 – System Performance Summary

TABLES

TABLE 1

SAMPLE MANAGEMENT

WHIDBEY MARINE AUTO SUPPLY

FREELAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods ¹ |
|-------------|-------------|--------------|-------------|--------|----------------------|
| MW-3S-4Q24 | N | 411091-01 | 11/05/2024 | WG | A, B, C, D, E, F |
| MW-6S-4Q24 | N | 411091-02 | 11/05/2024 | WG | A, B, C, F |
| MW-8S-4Q24 | N | 411091-03 | 11/05/2024 | WG | A, B, C, E, F |
| MW-8S-4Q24 | N | 411091 -03 | 11/05/2024 | WG | D |
| MW-21D-4Q24 | N | 411091-04 | 11/05/2024 | WG | A, B, C, E, F |
| MW-21D-4Q24 | N | 411091 -04 | 11/05/2024 | WG | D |
| MW-21D-4Q24 | N | 2411119-003A | 11/05/2024 | WG | G, H |
| MW-3S-4Q24 | N | 2411119-001A | 11/05/2024 | WG | G, H |
| MW-8S-4Q24 | N | 2411119-002A | 11/05/2024 | WG | G, H |
| MW-21D-4Q24 | N | 2411119-003B | 11/05/2024 | WG | I, J |
| MW-3S-4Q24 | N | 2411119-001B | 11/05/2024 | WG | I, J |
| MW-8S-4Q24 | N | 2411119-002B | 11/05/2024 | WG | I, J |
| MW-21D-4Q24 | N | 2411119-003C | 11/05/2024 | WG | K |
| MW-3S-4Q24 | N | 2411119-001C | 11/05/2024 | WG | K |
| MW-8S-4Q24 | N | 2411119-002C | 11/05/2024 | WG | K |
| MW-3S-4Q24 | N | 2411119-001D | 11/05/2024 | WG | L |
| MW-8S-4Q24 | N | 2411119-002D | 11/05/2024 | WG | L |
| MW-21D-4Q24 | N | 2411119-003D | 11/05/2024 | WG | L |
| MW-10D-4Q24 | N | 411101-01 | 11/06/2024 | WG | A, B, C, D, E, F |
| MW-11D-4Q24 | N | 411101-02 | 11/06/2024 | WG | A, B, C, E, F |
| MW-11D-4Q24 | N | 411101 -02 | 11/06/2024 | WG | D |
| MW-12D-4Q24 | N | 411101-03 | 11/06/2024 | WG | A, B, C, E, F |
| MW-12D-4Q24 | N | 411101 -03 | 11/06/2024 | WG | D |
| MW-17D-4Q24 | N | 411101-04 | 11/06/2024 | WG | A, B, C, E, F |
| MW-17D-4Q24 | N | 411101 -04 | 11/06/2024 | WG | D |
| MW-19D-4Q24 | N | 411101-05 | 11/06/2024 | WG | A, B, C, E, F |
| MW-19D-4Q24 | N | 411101 -05 | 11/06/2024 | WG | D |
| MW-10D-4Q24 | N | 2411130-001A | 11/06/2024 | WG | G, H |
| MW-11D-4Q24 | N | 2411130-002A | 11/06/2024 | WG | G, H |
| MW-12D-4Q24 | N | 2411130-003A | 11/06/2024 | WG | G, H |
| MW-17D-4Q24 | N | 2411130-004A | 11/06/2024 | WG | G, H |
| MW-10D-4Q24 | N | 2411130-001C | 11/06/2024 | WG | I, J |
| MW-11D-4Q24 | N | 2411130-002C | 11/06/2024 | WG | I, J |
| MW-12D-4Q24 | N | 2411130-003C | 11/06/2024 | WG | I, J |
| MW-17D-4Q24 | N | 2411130-004C | 11/06/2024 | WG | I, J |
| MW-10D-4Q24 | N | 2411130-001B | 11/06/2024 | WG | K |
| MW-11D-4Q24 | N | 2411130-002B | 11/06/2024 | WG | K |
| MW-12D-4Q24 | N | 2411130-003B | 11/06/2024 | WG | K |
| MW-17D-4Q24 | N | 2411130-004B | 11/06/2024 | WG | K |
| MW-10D-4Q24 | N | 2411130-001D | 11/06/2024 | WG | L |
| MW-11D-4Q24 | N | 2411130-002D | 11/06/2024 | WG | L |
| MW-12D-4Q24 | N | 2411130-003D | 11/06/2024 | WG | L |

TABLE 1

SAMPLE MANAGEMENT

WHIDBEY MARINE AUTO SUPPLY

FREELAND, WASHINGTON

| Sample ID | Sample Type | Lab ID | Sample Date | Matrix | Methods ¹ |
|-------------|-------------|--------------|-------------|--------|----------------------|
| MW-17D-4Q24 | N | 2411130-004D | 11/06/2024 | WG | L |
| MW-20D-4Q24 | N | 411132-01 | 11/07/2024 | WG | A, B, C, D, E, F |
| MW-22D-4Q24 | N | 411132-02 | 11/07/2024 | WG | A, B, C, E, F |
| MW-22D-4Q24 | N | 411132 -02 | 11/07/2024 | WG | D |
| MW-23D-4Q24 | N | 411132-03 | 11/07/2024 | WG | A, B, C, E, F |
| MW-23D-4Q24 | N | 411132 -03 | 11/07/2024 | WG | D |
| MW-9D-4Q24 | N | 411132-04 | 11/07/2024 | WG | A, B, C, E, F |
| MW-9D-4Q24 | N | 411132 -04 | 11/07/2024 | WG | D |
| FD-01-4Q24 | FD | 411132-05 | 11/07/2024 | WG | A, B, C, E, F |
| FD-01-4Q24 | FD | 411132 -05 | 11/07/2024 | WG | D |
| FD-01-4Q24 | FD | 2411170-003A | 11/07/2024 | WG | G, H |
| MW-23D-4Q24 | N | 2411170-001A | 11/07/2024 | WG | G, H |
| MW-9D-4Q24 | N | 2411170-002A | 11/07/2024 | WG | G, H |
| FD-01-4Q24 | FD | 2411170-003C | 11/07/2024 | WG | K |
| MW-23D-4Q24 | N | 2411170-001C | 11/07/2024 | WG | K |
| MW-9D-4Q24 | N | 2411170-002C | 11/07/2024 | WG | K |
| MW-23D-4Q24 | N | 2411170-001B | 11/07/2024 | WG | I, J |
| MW-9D-4Q24 | N | 2411170-002B | 11/07/2024 | WG | I, J |
| FD-01-4Q24 | FD | 2411170-003B | 11/07/2024 | WG | I, J |
| MW-23D-4Q24 | N | 2411170-001D | 11/07/2024 | WG | L |
| MW-9D-4Q24 | N | 2411170-002D | 11/07/2024 | WG | L |
| FD-01-4Q24 | FD | 2411170-003D | 11/07/2024 | WG | L |

Notes:

1. See Table 2

TABLE 2

METHOD HOLDING TIMES

WHIDBEY MARINE AUTO SUPPLY

FREELAND, WASHINGTON

| Method Holding Times | | | |
|----------------------|-------------|---|---|
| A | NWTPH-DX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid preserved 7 days for liquid unpreserved |
| B | SW8270E | Semivolatile Organic Compounds (SVOCs) | 7 days extraction / 40 days analysis for liquid unpreserved |
| C | NWTPH-GX | Total Petroleum Hydrocarbons (TPH) Total Diesel | 14 days for liquid preserved 7 days for liquid unpreserved |
| D | SM2540D | Total Suspended Solids | 7 days unpreserved |
| E | SW6020B | Metals | 180 days for liquid preserved |
| F | SW8260D | Volatile Organic Compounds (VOCs) | 14 days for liquid preserved 7 days for liquid unpreserved |
| G | E300 | Inorganic Anions (Chloride, Sulfate) | 28 days for liquid unpreserved |
| | | Inorganic Anions (Nitrate, Nitrite) | 48 hours for liquid unpreserved |
| H | E310.2 | Alkalinity | 14 days for liquid unpreserved |
| I | SM4500-NH3G | Nitrogen (Ammonia) Automated Phenate | 28 days for liquid preserved |
| J | SM5310C | Total Organic Carbon | 28 days for liquid preserved |
| K | SM4500-S2-D | Total Sulfides | 7 days for liquid preserved |
| L | RSK175 | Dissolved Gases | 14 days for liquid preserved |
| | | | 7 days for liquid unpreserved |

TABLE 3
SYSTEM PERFORMANCE SUMMARY
WHIDBEY MARINE AUTO SUPPLY
FREELAND, WASHINGTON

| SDG | Method | Sample ID | Lab ID | Analyte | Reportable Result | Reported Result | Validated Result | Reason for Qualifier |
|-----------------|-------------|-------------|--------------|--|-------------------|-----------------|------------------|----------------------|
| 411091 | SM2540D | MW-21D-4Q24 | 411091 -04 | Total Suspended Solids (TSS) | Yes | 8.4 | 8.4 J- | HTQ |
| 411091 | SM2540D | MW-3S-4Q24 | 411091-01 | Total Suspended Solids (TSS) | Yes | 6.8 | 6.8 J- | HTQ |
| 411091 | SM2540D | MW-8S-4Q24 | 411091 -03 | Total Suspended Solids (TSS) | Yes | 10 | 10 J- | HTQ |
| 411091(2411119) | SM4500-NH3G | MW-21D-4Q24 | 2411119-003B | Ammonia | Yes | U | R | MSD |
| 411091(2411119) | SM4500-NH3G | MW-3S-4Q24 | 2411119-001B | Ammonia | Yes | U | R | MSD |
| 411091(2411119) | SM4500-NH3G | MW-8S-4Q24 | 2411119-002B | Ammonia | Yes | U | R | MSD |
| 411132 | NWTPH-DX | FD-01-4Q24 | 411132-05 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 3100 | 3100 S | QUA |
| 411101 | NWTPH-DX | MW-11D-4Q24 | 411101-02 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 54 | 54 S | QUA |
| 411101 | NWTPH-DX | MW-12D-4Q24 | 411101-03 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 5700 | 5700 S | QUA |
| 411101 | NWTPH-DX | MW-17D-4Q24 | 411101-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 610 | 610 S | QUA |
| 411101 | NWTPH-DX | MW-19D-4Q24 | 411101-05 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 110 | 110 S | QUA |
| 411132 | NWTPH-DX | MW-20D-4Q24 | 411132-01 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 93 | 93 S | QUA |
| 411091 | NWTPH-DX | MW-21D-4Q24 | 411091-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 470 | 470 S | QUA |
| 411132 | NWTPH-DX | MW-23D-4Q24 | 411132-03 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 4500 | 4500 S | QUA |
| 411091 | NWTPH-DX | MW-8S-4Q24 | 411091-03 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 1500 | 1500 S | QUA |
| 411132 | NWTPH-DX | MW-9D-4Q24 | 411132-04 | Total Petroleum Hydrocarbons (C10-C25) DRO | Yes | 3300 | 3300 S | QUA |

Notes:
MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.
QUA = Analyte present; the reported value may not be accurate or precise due to poor chromatography. The sample chromatogram exhibits baseline interference that impacted sample quantitation.
HTQ = Holding time exceedance.
S = Result is suspect. See validation report for details.
R = The sample results were rejected as unusable; the compound may or may not be present in the sample.
J- = The result is an estimated quantity, but the result may be biased low.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
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November 18, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on November 6, 2024 from the Whidbey Marine PO 0204475-001, F&BI 411091 project. There are 35 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1118R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 6, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine PO 0204475-001, F&BI 411091 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 411091 -01 | MW-3S-4Q24 |
| 411091 -02 | MW-6S-4Q24 |
| 411091 -03 | MW-8S-4Q24 |
| 411091 -04 | MW-21D-4Q24 |

Samples MW-3S-4Q24, MW-8S-4Q24, and MW-21D-4Q24 were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

The 8260D laboratory control sample and laboratory control sample duplicate did not meet the relative percent difference for several compounds. The analytes were not detected, therefore the data were acceptable.

There was insufficient sample media to analyze sample MW-6S-4Q24 for 6020B total and dissolved metals.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

Date Extracted: 11/08/24

Date Analyzed: 11/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-3S-4Q24 411091-01 | <100 | 105 |
| MW-6S-4Q24 411091-02 | <100 | 105 |
| MW-8S-4Q24 411091-03 | 8,800 | 110 |
| MW-21D-4Q24 411091-04 | 3,600 | 116 |
| Method Blank 04-2700 MB | <100 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

Date Extracted: 11/07/24

Date Analyzed: 11/07/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-3S-4Q24 411091-01 | <50 | <250 | 86 |
| MW-6S-4Q24 411091-02 1/1.2 | <60 | <300 | 79 |
| MW-8S-4Q24 411091-03 | 1,500 x | <250 | 87 |
| MW-21D-4Q24 411091-04 | 470 x | <250 | 88 |
| Method Blank 04-2755 MB2 | <50 | <250 | 81 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-3S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-01 |
| Date Analyzed: | 11/12/24 | Data File: | 111239.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 102 | 71 | 132 |
| Toluene-d8 | 97 | 68 | 139 |
| 4-Bromofluorobenzene | 99 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-6S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-02 |
| Date Analyzed: | 11/14/24 | Data File: | 111345.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 71 | 132 |
| Toluene-d8 | 96 | 68 | 139 |
| 4-Bromofluorobenzene | 103 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-03 1/10 |
| Date Analyzed: | 11/12/24 | Data File: | 111241.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 71 | 132 |
| Toluene-d8 | 98 | 68 | 139 |
| 4-Bromofluorobenzene | 103 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <10 | 1,3-Dichloropropane | <10 |
| Chloromethane | <100 | Tetrachloroethene | <5 j |
| Vinyl chloride | <0.2 | Dibromochloromethane | <5 |
| Bromomethane | <50 | 1,2-Dibromoethane (EDB) | <0.1 |
| Chloroethane | <10 | Chlorobenzene | <10 |
| Trichlorofluoromethane | <10 | Ethylbenzene | <10 |
| Acetone | <500 ca | 1,1,1,2-Tetrachloroethane | <10 |
| 1,1-Dichloroethene | <10 | m,p-Xylene | <20 |
| Hexane | 68 | o-Xylene | <10 |
| Methylene chloride | <50 | Styrene | <10 |
| Methyl t-butyl ether (MTBE) | <10 | Isopropylbenzene | 83 |
| trans-1,2-Dichloroethene | <10 | Bromoform | <50 |
| 1,1-Dichloroethane | <10 | n-Propylbenzene | 150 |
| 2,2-Dichloropropane | <10 | Bromobenzene | <10 |
| cis-1,2-Dichloroethene | <10 | 1,3,5-Trimethylbenzene | 320 |
| Chloroform | <10 | 1,1,2,2-Tetrachloroethane | <2 |
| 2-Butanone (MEK) | <200 ca | 1,2,3-Trichloropropane | <10 |
| 1,2-Dichloroethane (EDC) | <2 | 2-Chlorotoluene | <10 |
| 1,1,1-Trichloroethane | <10 | 4-Chlorotoluene | <10 |
| 1,1-Dichloropropene | <10 | tert-Butylbenzene | <10 |
| Carbon tetrachloride | <5 | 1,2,4-Trimethylbenzene | 770 |
| Benzene | <0.35 j | sec-Butylbenzene | 10 |
| Trichloroethene | <0.5 j | p-Isopropyltoluene | <10 |
| 1,2-Dichloropropane | <10 | 1,3-Dichlorobenzene | <10 |
| Bromodichloromethane | <5 | 1,4-Dichlorobenzene | <10 |
| Dibromomethane | <10 | 1,2-Dichlorobenzene | <10 |
| 4-Methyl-2-pentanone | <100 | 1,2-Dibromo-3-chloropropane | <100 |
| cis-1,3-Dichloropropene | <4 | 1,2,4-Trichlorobenzene | <10 |
| Toluene | <10 | Hexachlorobutadiene | <5 |
| trans-1,3-Dichloropropene | <4 | Naphthalene | 12 |
| 1,1,2-Trichloroethane | <5 | 1,2,3-Trichlorobenzene | <10 |
| 2-Hexanone | <100 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-04 |
| Date Analyzed: | 11/12/24 | Data File: | 111242.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 71 | 132 |
| Toluene-d8 | 101 | 68 | 139 |
| 4-Bromofluorobenzene | 104 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 45 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 73 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 270 |
| Hexane | 9.6 | o-Xylene | 100 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 7.8 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 23 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | 79 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 250 ve |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 76 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-04 1/10 |
| Date Analyzed: | 11/14/24 | Data File: | 111346.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 71 | 132 |
| Toluene-d8 | 100 | 68 | 139 |
| 4-Bromofluorobenzene | 98 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| 1,2,4-Trimethylbenzene | 270 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 04-2775 mb |
| Date Analyzed: | 11/12/24 | Data File: | 111230.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 71 | 132 |
| Toluene-d8 | 101 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <0.5 j |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 ca | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 ca | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.035 j | sec-Butylbenzene | <1 |
| Trichloroethene | <0.05 j | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-3S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 411091-01 |
| Date Analyzed: | 11/07/24 | Data File: | 110711.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 82 | 15 | 144 |
| 2-Fluorobiphenyl | 80 | 25 | 128 |
| 2,4,6-Tribromophenol | 79 | 10 | 142 |
| Terphenyl-d14 | 87 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-6S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 411091-02 |
| Date Analyzed: | 11/07/24 | Data File: | 110712.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 88 | 15 | 144 |
| 2-Fluorobiphenyl | 91 | 25 | 128 |
| 2,4,6-Tribromophenol | 99 | 10 | 142 |
| Terphenyl-d14 | 94 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.33 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.022 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 411091-03 |
| Date Analyzed: | 11/07/24 | Data File: | 110713.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 89 | 15 | 144 |
| 2-Fluorobiphenyl | 88 | 25 | 128 |
| 2,4,6-Tribromophenol | 110 | 10 | 142 |
| Terphenyl-d14 | 99 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 12 |
| 2-Methylnaphthalene | 97 ve |
| 1-Methylnaphthalene | 62 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.17 |
| Fluorene | 0.21 |
| Phenanthrene | 0.12 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 411091-03 1/10 |
| Date Analyzed: | 11/10/24 | Data File: | 110919.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 72 d | 11 | 173 |
| 2-Fluorobiphenyl | 72 d | 25 | 128 |
| 2,4,6-Tribromophenol | 111 d | 10 | 140 |
| Terphenyl-d14 | 82 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| 2-Methylnaphthalene | 85 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 411091-04 |
| Date Analyzed: | 11/07/24 | Data File: | 110714.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 87 | 15 | 144 |
| 2-Fluorobiphenyl | 78 | 25 | 128 |
| 2,4,6-Tribromophenol | 96 | 10 | 142 |
| Terphenyl-d14 | 87 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 49 |
| 2-Methylnaphthalene | 19 |
| 1-Methylnaphthalene | 7.5 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | 0.021 |
| Phenanthrene | 0.021 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/07/24 | Lab ID: | 04-2760 mb |
| Date Analyzed: | 11/07/24 | Data File: | 110709.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 85 | 15 | 144 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 70 | 10 | 142 |
| Terphenyl-d14 | 81 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-3S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-01 |
| Date Analyzed: | 11/12/24 | Data File: | 411091-01.253 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.8 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-03 |
| Date Analyzed: | 11/12/24 | Data File: | 411091-03.256 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 5.2 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-04 |
| Date Analyzed: | 11/12/24 | Data File: | 411091-04.259 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.7 |
| Lead | 2.2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | I4-968 mb |
| Date Analyzed: | 11/12/24 | Data File: | I4-968 mb.179 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-3S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-01 |
| Date Analyzed: | 11/14/24 | Data File: | 411091-01.106 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | 2.0 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-03 |
| Date Analyzed: | 11/12/24 | Data File: | 411091-03.248 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 4.7 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-8S-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-03 x100 |
| Date Analyzed: | 11/14/24 | Data File: | 411091-03 x100.107 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 1,400 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-04 |
| Date Analyzed: | 11/12/24 | Data File: | 411091-04.249 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
| Arsenic | 2.3 |
| Lead | 2.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-21D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/06/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | 411091-04 x10 |
| Date Analyzed: | 11/14/24 | Data File: | 411091-04 x10.108 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|----|
| Manganese | 31 |
|-----------|----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/12/24 | Lab ID: | I4-967 mb |
| Date Analyzed: | 11/12/24 | Data File: | I4-967 mb.177 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

Date Extracted: 11/12/24

Date Analyzed: 11/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-3S-4Q24 411091-01 | 6.8 |
| MW-8S-4Q24 411091-03 | 10 |
| MW-21D-4Q24 411091-04 | 8.4 |
| Method Blank I4-0973 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 411091-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 95 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 96 | 96 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 411094-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 98 | 27-164 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 97 | 34-141 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 99 | 16-176 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 96 | 10-193 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 91 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 52 | 15-179 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 94 | 49-161 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 67 | 40-143 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 98 | 62-152 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Chloroform | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 84 | 34-168 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 103 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 97 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 105 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 99 | 43-133 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 96 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 96 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 94 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 95 | 48-145 |
| Toluene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 94 | 37-152 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 108 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 90 | 50-150 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | 3.3 | 100 b | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 96 | 33-164 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 104 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 108 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 96 | 23-161 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 112 | 57-162 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 103 | 33-151 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 118 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 102 | 46-139 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 102 | 46-140 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 95 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 97 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 95 | 42-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 96 | 44-155 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 98 | 106 | 49-149 | 8 |
| Chloromethane | ug/L (ppb) | 10 | 89 | 100 | 34-143 | 12 |
| Vinyl chloride | ug/L (ppb) | 10 | 95 | 102 | 43-149 | 7 |
| Bromomethane | ug/L (ppb) | 10 | 89 | 110 | 28-182 | 21 vo |
| Chloroethane | ug/L (ppb) | 10 | 103 | 112 | 59-157 | 8 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 98 | 107 | 59-141 | 9 |
| Acetone | ug/L (ppb) | 50 | 48 | 54 | 20-139 | 12 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 92 | 100 | 67-138 | 8 |
| Hexane | ug/L (ppb) | 10 | 91 | 97 | 50-161 | 6 |
| Methylene chloride | ug/L (ppb) | 10 | 69 | 81 | 29-192 | 16 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 95 | 105 | 70-130 | 10 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 95 | 105 | 70-130 | 10 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 96 | 106 | 70-130 | 10 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 98 | 105 | 71-148 | 7 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 96 | 105 | 70-130 | 9 |
| Chloroform | ug/L (ppb) | 10 | 90 | 100 | 70-130 | 11 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 68 | 87 | 50-157 | 25 vo |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 97 | 107 | 70-130 | 10 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 93 | 102 | 70-130 | 9 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 93 | 104 | 70-130 | 11 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 89 | 101 | 70-130 | 13 |
| Benzene | ug/L (ppb) | 10 | 97 | 107 | 70-130 | 10 |
| Trichloroethene | ug/L (ppb) | 10 | 91 | 102 | 70-130 | 11 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 89 | 99 | 70-130 | 11 |
| Bromodichloromethane | ug/L (ppb) | 10 | 91 | 102 | 70-130 | 11 |
| Dibromomethane | ug/L (ppb) | 10 | 88 | 99 | 70-130 | 12 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 89 | 102 | 70-130 | 14 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 90 | 97 | 70-130 | 7 |
| Toluene | ug/L (ppb) | 10 | 105 | 106 | 70-130 | 1 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 95 | 70-130 | 2 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 105 | 107 | 70-130 | 2 |
| 2-Hexanone | ug/L (ppb) | 50 | 82 | 102 | 66-132 | 22 vo |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 101 | 106 | 70-130 | 5 |
| Tetrachloroethene | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| Dibromochloromethane | ug/L (ppb) | 10 | 96 | 100 | 63-142 | 4 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 103 | 105 | 70-130 | 2 |
| Chlorobenzene | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| Ethylbenzene | ug/L (ppb) | 10 | 105 | 106 | 70-130 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 101 | 102 | 70-130 | 1 |
| m,p-Xylene | ug/L (ppb) | 20 | 104 | 105 | 70-130 | 1 |
| o-Xylene | ug/L (ppb) | 10 | 104 | 106 | 70-130 | 2 |
| Styrene | ug/L (ppb) | 10 | 93 | 100 | 70-130 | 7 |
| Isopropylbenzene | ug/L (ppb) | 10 | 101 | 105 | 70-130 | 4 |
| Bromoform | ug/L (ppb) | 10 | 93 | 99 | 50-157 | 6 |
| n-Propylbenzene | ug/L (ppb) | 10 | 106 | 103 | 70-130 | 3 |
| Bromobenzene | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 103 | 100 | 52-150 | 3 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 109 | 109 | 75-140 | 0 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 103 | 104 | 40-153 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 100 | 70-130 | 4 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 101 | 101 | 70-130 | 0 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 103 | 101 | 70-130 | 2 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 105 | 102 | 70-130 | 3 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 102 | 70-130 | 2 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 101 | 102 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 105 | 103 | 70-130 | 2 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 96 | 94 | 70-130 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 102 | 94 | 70-130 | 8 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 106 | 101 | 70-130 | 5 |
| Naphthalene | ug/L (ppb) | 10 | 98 | 90 | 61-133 | 9 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 98 | 92 | 69-143 | 6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 81 | 79 | 50-104 | 2 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 82 | 79 | 52-113 | 4 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 83 | 80 | 51-115 | 4 |
| Acenaphthylene | ug/L (ppb) | 10 | 97 | 100 | 60-114 | 3 |
| Acenaphthene | ug/L (ppb) | 10 | 94 | 91 | 57-110 | 3 |
| Fluorene | ug/L (ppb) | 10 | 97 | 97 | 61-115 | 0 |
| Phenanthrene | ug/L (ppb) | 10 | 98 | 101 | 63-113 | 3 |
| Anthracene | ug/L (ppb) | 10 | 100 | 101 | 65-117 | 1 |
| Fluoranthene | ug/L (ppb) | 10 | 107 | 108 | 68-121 | 1 |
| Pyrene | ug/L (ppb) | 10 | 96 | 98 | 62-133 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 97 | 98 | 66-131 | 1 |
| Chrysene | ug/L (ppb) | 10 | 94 | 95 | 66-129 | 1 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 105 | 101 | 66-129 | 4 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 105 | 104 | 55-144 | 1 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 107 | 101 | 58-139 | 6 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 101 | 104 | 62-136 | 3 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 106 | 105 | 55-146 | 1 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 101 | 100 | 58-137 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 411091-01 x10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | <10 | 90 | 87 | 75-125 | 3 |
| Lead | ug/L (ppb) | 10 | <10 | 102 | 98 | 75-125 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 92 | 80-120 |
| Lead | ug/L (ppb) | 10 | 96 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 411072-18 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 10.8 | 93 b | 92 b | 75-125 | 1 b |
| Lead | ug/L (ppb) | 10 | <1 | 102 | 102 | 75-125 | 0 |
| Manganese | ug/L (ppb) | 10 | 1,320 | 584 b | 634 b | 75-125 | 8 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 96 | 80-120 |
| Lead | ug/L (ppb) | 10 | 99 | 80-120 |
| Manganese | ug/L (ppb) | 10 | 101 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/24

Date Received: 11/06/24

Project: Whidbey Marine PO 0204475-001, F&BI 411091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 411153-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 42 | 43 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 96 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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PO #

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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TURNAROUND TIME **K5**
☒ Standard turnaround
☐ RUSH **F3**
 Rush charges authorized by: _____



SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____

Default: Dispose after 30 days

Default: Dispose after 30 days

[illegible]

Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|---|-----------------|---------|---------|-------|
|  | Andrew Nakahara | HA | 11/5/24 | 07:30 |
| Received by:  | VINY | FB | 11-6-24 | 12:30 |
| Relinquished by: | | | | |
| Received by: | | | | |

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 411091 CLIENT HNA

INITIALS/ NA 11/6/24
DATE:

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature

1 °C

Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?

☐ Over the Counter

☒ Picked up by F&BI

☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)?

☒ YES ☐ NO

Initials/ Sub 11/6

*or other representative documents, letters, and/or shipping memos

Date:

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below)

☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)

☒ YES ☐ NO

Were appropriate sample containers used?

☒ YES ☒ NO

☐ Unknown

If custody seals are present on samples, are they intact?

☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free?

☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's ☒ Yes ☐ No ☐ Not on COC/label

Date Sampled ☒ Yes ☐ No ☐ Not on COC/label

Time Sampled ☒ Yes ☐ No ☐ Not on COC/label

of Containers ☒ Yes ☐ No

Relinquished ☒ Yes ☐ No

Requested analysis ☒ Yes ☐ On Hold

Other comments (use a separate page if needed)

No unpreserved sample for -02

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 411091,

Work Order Number: 2411119

November 13, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 11/6/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original



Date: 11/13/2024

CLIENT: Friedman & Bruya
Project: 411091
Work Order: 2411119

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2411119-001 | MW-3S-4Q24 | 11/05/2024 3:20 PM | 11/06/2024 3:05 PM |
| 2411119-002 | MW-8S-4Q24 | 11/05/2024 11:35 AM | 11/06/2024 3:05 PM |
| 2411119-003 | MW-21D-4Q24 | 11/05/2024 2:05 PM | 11/06/2024 3:05 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 411091

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 411091

Lab ID: 2411119-001

Collection Date: 11/5/2024 3:20:00 PM

Client Sample ID: MW-3S-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R95662 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|-----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 11/12/2024 2:22:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:22:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:22:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 45763 Analyst: OP

| | | | | | | |
|----------------|------|-------|---|------|----|-----------------------|
| Chloride | 24.2 | 2.00 | D | mg/L | 10 | 11/8/2024 2:45:00 AM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 11/7/2024 12:15:00 AM |
| Nitrate (as N) | 8.41 | 0.400 | D | mg/L | 2 | 11/7/2024 12:15:00 AM |

NOTES:

Diluted due to high levels of non-target analytes.

Total Organic Carbon by SM 5310C

Batch ID: R95639 Analyst: OP

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 1.67 | 0.700 | | mg/L | 1 | 11/11/2024 4:46:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R95619 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 136 | 25.0 | D | mg/L | 10 | 11/11/2024 3:32:00 PM |
|---|-----|------|---|------|----|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 45805 Analyst: OP

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 11:13:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R95600 Analyst: BB

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 411091

Lab ID: 2411119-002

Collection Date: 11/5/2024 11:35:00 AM

Client Sample ID: MW-8S-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R95662 Analyst: CO

| | | | | | | |
|---------|---------|---------|--|------|---|-----------------------|
| Methane | 0.00501 | 0.00500 | | mg/L | 1 | 11/12/2024 2:27:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:27:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:27:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 45763 Analyst: OP

| | | | | | | |
|----------------|------|-------|---|------|----|-----------------------|
| Chloride | 35.0 | 2.00 | D | mg/L | 10 | 11/8/2024 3:08:00 AM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 11/7/2024 12:38:00 AM |
| Nitrate (as N) | 1.83 | 0.400 | D | mg/L | 2 | 11/7/2024 12:38:00 AM |

NOTES:

Diluted due to high levels of non-target analytes.

Total Organic Carbon by SM 5310C

Batch ID: R95639 Analyst: OP

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 4.39 | 0.700 | | mg/L | 1 | 11/11/2024 6:20:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R95619 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 191 | 25.0 | D | mg/L | 10 | 11/11/2024 3:34:00 PM |
|---|-----|------|---|------|----|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 45805 Analyst: OP

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 11:33:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R95600 Analyst: BB

| | | | | | | |
|---------|-------|--------|--|------|---|-----------------------|
| Sulfide | 0.355 | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |
|---------|-------|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 411091

Lab ID: 2411119-003

Collection Date: 11/5/2024 2:05:00 PM

Client Sample ID: MW-21D-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R95662 Analyst: CO

| | | | | | | |
|---------|----|---------|--|------|---|-----------------------|
| Methane | ND | 0.00500 | | mg/L | 1 | 11/12/2024 2:29:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:29:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:29:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 45763 Analyst: OP

| | | | | | | |
|----------------|------|-------|---|------|----|----------------------|
| Chloride | 55.3 | 2.00 | D | mg/L | 10 | 11/8/2024 3:31:00 AM |
| Nitrite (as N) | ND | 0.400 | D | mg/L | 2 | 11/7/2024 1:01:00 AM |
| Nitrate (as N) | 1.92 | 0.400 | D | mg/L | 2 | 11/7/2024 1:01:00 AM |

NOTES:

Diluted due to high levels of non-target analytes.

Total Organic Carbon by SM 5310C

Batch ID: R95639 Analyst: OP

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 1.67 | 0.700 | | mg/L | 1 | 11/11/2024 6:49:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R95619 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 130 | 25.0 | D | mg/L | 10 | 11/11/2024 3:37:00 PM |
|---|-----|------|---|------|----|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 45805 Analyst: OP

| | | | | | | |
|-------------------|----|-------|--|------|---|-----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 11:38:00 AM |
|-------------------|----|-------|--|------|---|-----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R95600 Analyst: BB

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |
|---------|----|--------|--|------|---|-----------------------|

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | | |
|----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: MB-95619 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: MBLKW | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | | SeqNo: 1996046 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|-------------|----------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-95619 | SampType: LCS | Units: mg/L | | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | | |
| Client ID: LCSW | Batch ID: R95619 | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996047 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|
| Alkalinity, Total (As CaCO3) | 26.2 | 2.50 | 25.00 | 0 | 105 | 83.8 | 121 | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|---------------------------|----------|-----------------------|----------------|------|--------------|------|--|
| Sample ID: 2411094-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: BATCH | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996049 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|
| Alkalinity, Total (As CaCO3) | 44.9 | 2.50 | | | | | | 46.00 | 2.42 | 20 | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|---------------------------|----------|-----------------------|----------------|------|--------------|------|--|
| Sample ID: 2411119-001ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996059 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|
| Alkalinity, Total (As CaCO3) | 67.7 | 2.50 | | | | | | 68.60 | 1.32 | 20 | E |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-45805 | | SampType: MBLK | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: MBLKW | | Batch ID: 45805 | | Analysis Date: 11/8/2024 | | | | | | SeqNo: 1994856 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-45805 | | SampType: LCS | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: LCSW | | Batch ID: 45805 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1994857 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia 0.445 0.150 0.5000 0 89.0 81.7 122

| | | | | | | | | | | | | |
|----------------------------|--------|-----------------|-----------|-------------|------|----------------------|--------------------------|-------------|--------------|----------------|------|--|
| Sample ID: 2411119-001BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | | |
| Client ID: MW-3S-4Q24 | | Batch ID: 45805 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1994859 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411119-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: 45805 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1994860 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411119-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 11/8/2024 | | RunNo: 95592 | | | |
| Client ID: MW-3S-4Q24 | | Batch ID: 45805 | | | | Analysis Date: 11/8/2024 | | SeqNo: 1994861 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 0 30 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-45763 | | SampType: MBLK | | Units: mg/L | | Prep Date: 11/6/2024 | | | RunNo: 95561 | | |
| Client ID: MBLKW | | Batch ID: 45763 | | | | | Analysis Date: 11/6/2024 | | | SeqNo: 1994068 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-45763 | | SampType: LCS | | Units: mg/L | | Prep Date: 11/6/2024 | | | RunNo: 95561 | | |
| Client ID: LCSW | | Batch ID: 45763 | | | | | Analysis Date: 11/6/2024 | | | SeqNo: 1994070 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|---|------|----|-----|--|--|--|--|
| Chloride | 0.742 | 0.200 | 0.7500 | 0 | 98.9 | 90 | 110 | | | | |
| Nitrite (as N) | 0.723 | 0.200 | 0.7500 | 0 | 96.4 | 90 | 110 | | | | |
| Nitrate (as N) | 0.736 | 0.200 | 0.7500 | 0 | 98.1 | 90 | 110 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411038-001CDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 11/6/2024 | | RunNo: 95561 | | | |
| Client ID: BATCH | | Batch ID: 45763 | | | | Analysis Date: 11/6/2024 | | SeqNo: 1994072 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|------|-------|--|--|--|--|--|-------|------|----|---|
| Chloride | 3.09 | 0.200 | | | | | | 3.045 | 1.50 | 20 | |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411038-001CMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/6/2024 | | RunNo: 95561 | | | |
| Client ID: BATCH | | Batch ID: 45763 | | | | Analysis Date: 11/6/2024 | | SeqNo: 1994073 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|-------|------|----|-----|--|--|--|---|
| Chloride | 3.81 | 0.200 | 0.7500 | 3.045 | 102 | 80 | 120 | | | | |
| Nitrite (as N) | 0.726 | 0.200 | 0.7500 | 0 | 96.8 | 80 | 120 | | | | H |
| Nitrate (as N) | 0.718 | 0.200 | 0.7500 | 0 | 95.7 | 80 | 120 | | | | H |

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| Sample ID: 2411038-001CMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 11/6/2024 | | RunNo: 95561 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | | Batch ID: 45763 | | | | Analysis Date: 11/6/2024 | | SeqNo: 1994074 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 3.83 | 0.200 | 0.7500 | 3.045 | 105 | 80 | 120 | 3.812 | 0.445 | 20 | |
| Nitrite (as N) | 0.734 | 0.200 | 0.7500 | 0 | 97.9 | 80 | 120 | 0.7260 | 1.10 | 20 | H |
| Nitrate (as N) | 0.722 | 0.200 | 0.7500 | 0 | 96.3 | 80 | 120 | 0.7180 | 0.556 | 20 | H |

| Sample ID: 2411004-001BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 11/6/2024 | | RunNo: 95561 | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: BATCH | | Batch ID: 45763 | | | | Analysis Date: 11/7/2024 | | SeqNo: 1994689 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 21.4 | 0.200 | | | | | | 21.58 | 0.978 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Nitrate (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |

| Sample ID: 2411004-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/6/2024 | | RunNo: 95561 | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: BATCH | | Batch ID: 45763 | | | | Analysis Date: 11/7/2024 | | SeqNo: 1994690 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 21.8 | 0.200 | 0.7500 | 21.58 | 23.6 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.743 | 0.200 | 0.7500 | 0 | 99.1 | 80 | 120 | | | | H |
| Nitrate (as N) | 0.938 | 0.200 | 0.7500 | 0.1910 | 99.6 | 80 | 120 | | | | H |

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R95600 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: MBLKW | | Batch ID: R95600 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995054 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R95600 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: LCSW | | Batch ID: R95600 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995055 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.201 | 0.0500 | 0.2000 | 0 | 101 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411119-001CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: R95600 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995057 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | ND | 0.0500 | | | | | | 0 | | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411119-001CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: R95600 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995058 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.195 | 0.0500 | 0.2000 | 0.02592 | 84.5 | 80 | 120 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411119-001CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: R95600 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995059 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Sulfide | 0.191 | 0.0500 | 0.2000 | 0.02592 | 82.6 | 80 | 120 | 0.1948 | 1.93 | 20 | | |

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-R95639 | SampType: MBLK | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MBLKW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995924 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-R95639 | SampType: LCS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: LCSW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 26.2 | 0.700 | 25.00 | 0 | 105 | 87.6 | 109 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MW-3S-4Q24 | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.69 | 0.700 | | | | | | 1.666 | 1.19 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMS | SampType: MS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MW-3S-4Q24 | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995928 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.0 | 0.700 | 25.00 | 1.666 | 101 | 73.1 | 113 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MW-3S-4Q24 | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995929 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.3 | 0.700 | 25.00 | 1.666 | 102 | 73.1 | 113 | 26.97 | 1.09 | 30 | | |

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|----------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411179-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 11/11/2024 | | | RunNo: 95639 | | | |
| Client ID: BATCH | Batch ID: R95639 | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995917 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 4.60 | 0.700 | | | | | | 4.801 | 4.38 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|--------------------|------|----------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411179-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/11/2024 | | RunNo: 95639 | | | |
| Client ID: BATCH | | Batch ID: R95639 | | | | Analysis Date: 11/11/2024 | | SeqNo: 1995918 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 29.7 | 0.700 | 25.00 | 4.801 | 99.6 | 73.1 | 113 | | | | |

Work Order: 2411119
CLIENT: Friedman & Bruya
Project: 411091

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R95662 | | SampType: LCS | | | Units: ppmv | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: LCSW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | SeqNo: 1996436 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|-----|------|-----|--|--|--|--|
| Methane | 1,080 | 0.00500 | 1,000 | 0 | 108 | 73.6 | 124 | | | | |
| Ethene | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.3 | 122 | | | | |
| Ethane | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R95662 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: MBLKW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | | | SeqNo: 1996435 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|--------------------|----------|------------------------------|----------------------------------|------|---------------------|-----------------------|--|
| Sample ID: 2411119-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: MW-3S-4Q24 | | Batch ID: R95662 | | | | | | Analysis Date: 11/12/2024 | | | SeqNo: 1996421 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2411119

Logged by: Morgan Wilson

Date Received: 11/6/2024 3:05:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 5.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2411119

1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
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office@friedmanandbruya.com
www.friedmanandbruya.com

November 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on November 7, 2024 from the Whidbey Marine PO 0204475-001, F&BI 411101 project. There are 43 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1119R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 7, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine PO 0204475-001, F&BI 411101 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 411101 -01 | MW-10D-4Q24 |
| 411101 -02 | MW-11D-4Q24 |
| 411101 -03 | MW-12D-4Q24 |
| 411101 -04 | MW-17D-4Q24 |
| 411101 -05 | MW-19D-4Q24 |

Samples MW-10D-4Q24, MW-11D-4Q24, MW-12D-4Q24, and MW-17D-4Q24 were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard exceeded the acceptance criteria for acetone and 2-butanone. The compounds were not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier. The results are not considered estimates.

The 8260D laboratory control sample and laboratory control sample duplicate did not meet the relative percent difference for several compounds. The analytes were not detected therefore the data were acceptable.

The dissolved metals samples were filtered at Friedman and Bruya. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

Date Extracted: 11/08/24

Date Analyzed: 11/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate (% Recovery) (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| MW-10D-4Q24 411101-01 | <100 | 106 |
| MW-11D-4Q24 411101-02 | 110 | 112 |
| MW-12D-4Q24 411101-03 1/40 | 49,000 | 117 |
| MW-17D-4Q24 411101-04 1/20 | 4,200 | 112 |
| MW-19D-4Q24 411101-05 | <100 | 104 |
| Method Blank 04-2699 MB | <100 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

Date Extracted: 11/08/24

Date Analyzed: 11/08/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> (% Recovery) (Limit 50-150) |
|-----------------------------------|--|---|--|
| MW-10D-4Q24 411101-01 | <50 | <250 | 106 |
| MW-11D-4Q24 411101-02 | 54 x | <250 | 102 |
| MW-12D-4Q24 411101-03 | 5,700 x | <250 | 112 |
| MW-17D-4Q24 411101-04 | 610 x | <250 | 121 |
| MW-19D-4Q24 411101-05 | 110 x | <250 | 111 |
| Method Blank 04-2766 MB | <50 | <250 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-10D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-01 |
| Date Analyzed: | 11/14/24 | Data File: | 111342.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 71 | 132 |
| Toluene-d8 | 99 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 32 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-11D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-02 |
| Date Analyzed: | 11/14/24 | Data File: | 111343.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 71 | 132 |
| Toluene-d8 | 97 | 68 | 139 |
| 4-Bromofluorobenzene | 99 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 2.2 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 2.2 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 8.9 |
| Hexane | <5 | o-Xylene | 3.2 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 2.6 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 4.2 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-03 1/100 |
| Date Analyzed: | 11/14/24 | Data File: | 111347.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 71 | 132 |
| Toluene-d8 | 95 | 68 | 139 |
| 4-Bromofluorobenzene | 97 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 1,600 |
| Acetone | <5,000 k | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 6,200 |
| Hexane | <500 | o-Xylene | 2,600 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 150 |
| 2,2-Dichloropropane | <100 | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 460 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 k | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 1,800 |
| Benzene | <3.5 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 3,000 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 590 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-04 |
| Date Analyzed: | 11/15/24 | Data File: | 111517.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 71 | 132 |
| Toluene-d8 | 103 | 68 | 139 |
| 4-Bromofluorobenzene | 102 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 290 ve |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 500 ve |
| Hexane | 15 | o-Xylene | 13 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | 12 |
| trans-1,2-Dichloroethene | 3.5 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | 30 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | 6.5 | 1,3,5-Trimethylbenzene | 42 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | 1.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | 220 ve |
| Benzene | 52 | sec-Butylbenzene | 2.0 |
| Trichloroethene | 10 | p-Isopropyltoluene | 1.1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 14 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | 88 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-04 1/10 |
| Date Analyzed: | 11/18/24 | Data File: | 111807.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 98 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 100 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Ethylbenzene | 340 |
| m,p-Xylene | 520 |
| 1,2,4-Trimethylbenzene | 240 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-19D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-05 |
| Date Analyzed: | 11/14/24 | Data File: | 111344.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 71 | 132 |
| Toluene-d8 | 97 | 68 | 139 |
| 4-Bromofluorobenzene | 101 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 04-2780 mb |
| Date Analyzed: | 11/13/24 | Data File: | 111330.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 71 | 132 |
| Toluene-d8 | 96 | 68 | 139 |
| 4-Bromofluorobenzene | 98 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|--------------------------|-----------------------------|--------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.035 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-10D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-01 |
| Date Analyzed: | 11/12/24 | Data File: | 111206.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 73 | 11 | 173 |
| 2-Fluorobiphenyl | 76 | 25 | 128 |
| 2,4,6-Tribromophenol | 87 | 10 | 140 |
| Terphenyl-d14 | 78 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-11D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-02 |
| Date Analyzed: | 11/12/24 | Data File: | 111207.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 78 | 11 | 173 |
| 2-Fluorobiphenyl | 79 | 25 | 128 |
| 2,4,6-Tribromophenol | 100 | 10 | 140 |
| Terphenyl-d14 | 79 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.98 |
| 2-Methylnaphthalene | 0.32 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-03 |
| Date Analyzed: | 11/12/24 | Data File: | 111208.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 87 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 126 | 10 | 140 |
| Terphenyl-d14 | 78 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 200 ve |
| 2-Methylnaphthalene | 110 ve |
| 1-Methylnaphthalene | 59 ve |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.10 |
| Fluorene | 0.20 |
| Phenanthrene | 0.27 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | 0.022 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-03 1/50 |
| Date Analyzed: | 11/12/24 | Data File: | 111219.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 80 d | 11 | 173 |
| 2-Fluorobiphenyl | 65 d | 25 | 128 |
| 2,4,6-Tribromophenol | 134 d | 10 | 140 |
| Terphenyl-d14 | 85 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 500 |
| 2-Methylnaphthalene | 130 |
| 1-Methylnaphthalene | 56 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-04 |
| Date Analyzed: | 11/12/24 | Data File: | 111209.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 75 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 101 | 10 | 140 |
| Terphenyl-d14 | 80 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 43 ve |
| 2-Methylnaphthalene | 15 |
| 1-Methylnaphthalene | 8.1 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.033 |
| Fluorene | 0.029 |
| Phenanthrene | 0.025 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-04 1/10 |
| Date Analyzed: | 11/12/24 | Data File: | 111220.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 76 d | 11 | 173 |
| 2-Fluorobiphenyl | 73 d | 25 | 128 |
| 2,4,6-Tribromophenol | 104 d | 10 | 140 |
| Terphenyl-d14 | 99 d | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 66 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-19D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411101-05 |
| Date Analyzed: | 11/12/24 | Data File: | 111210.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 11 | 173 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 103 | 10 | 140 |
| Terphenyl-d14 | 83 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 04-2794 mb2 |
| Date Analyzed: | 11/11/24 | Data File: | 111113.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 11 | 173 |
| 2-Fluorobiphenyl | 74 | 25 | 128 |
| 2,4,6-Tribromophenol | 99 | 10 | 140 |
| Terphenyl-d14 | 76 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-10D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-01 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-01.183 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.7 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-11D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-02 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-02.184 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 1.2 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-03 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-03.185 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 30 |
| Lead | 3.4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-04 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-04.186 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 29 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-19D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-05 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-05.187 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 15 |
| Lead | 1.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | I4-974 mb2 |
| Date Analyzed: | 11/13/24 | Data File: | I4-974 mb2.195 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-10D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-01 |
| Date Analyzed: | 11/13/24 | Data File: | 411101-01.130 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-10D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-01 |
| Date Analyzed: | 11/18/24 | Data File: | 411101-01.071 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Manganese | 4.3 |
|-----------|-----|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-11D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-02 |
| Date Analyzed: | 11/13/24 | Data File: | 411101-02.136 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | 9.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-03 |
| Date Analyzed: | 11/13/24 | Data File: | 411101-03.137 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 23 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-12D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-03 x10 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-03 x10.053 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 3,700 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-04 |
| Date Analyzed: | 11/13/24 | Data File: | 411101-04.138 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | 26 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-17D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-04 x10 |
| Date Analyzed: | 11/14/24 | Data File: | 411101-04 x10.054 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-------|
| Manganese | 2,800 |
|-----------|-------|

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-19D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/07/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | 411101-05 |
| Date Analyzed: | 11/13/24 | Data File: | 411101-05.139 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|-----------|-----|
| Arsenic | 14 |
| Lead | <1 |
| Manganese | 9.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/13/24 | Lab ID: | I4-978 mb |
| Date Analyzed: | 11/13/24 | Data File: | I4-978 mb.062 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|-----------|-----------------------------|
| Arsenic | <1 |
| Lead | <1 |
| Manganese | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

Date Extracted: 11/12/24

Date Analyzed: 11/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-10D-4Q24 411101-01 | <5 |
| MW-11D-4Q24 411101 -02 | <5 |
| MW-12D-4Q24 411101 -03 | 40 |
| MW-17D-4Q24 411101 -04 | 27 |
| MW-19D-4Q24 411101 -05 | 120 |
| Method Blank I4-0973 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 411062-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | 1,300 | 1,300 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 95 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 96 | 100 | 65-151 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 411115-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 104 | 103 | 27-164 | 1 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 96 | 99 | 34-141 | 3 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 108 | 104 | 16-176 | 4 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 96 | 91 | 10-193 | 5 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 116 | 116 | 50-150 | 0 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 93 | 97 | 50-150 | 4 |
| Acetone | ug/L (ppb) | 50 | <50 | 59 | 55 | 15-179 | 7 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 103 | 101 | 50-150 | 2 |
| Hexane | ug/L (ppb) | 10 | <5 | 96 | 104 | 49-161 | 8 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 73 | 73 | 40-143 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 107 | 105 | 50-150 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 107 | 103 | 50-150 | 4 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 111 | 107 | 50-150 | 4 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 91 | 90 | 62-152 | 1 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 109 | 105 | 50-150 | 4 |
| Chloroform | ug/L (ppb) | 10 | <1 | 104 | 98 | 50-150 | 6 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 89 | 87 | 34-168 | 2 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 110 | 107 | 50-150 | 3 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 105 | 102 | 50-150 | 3 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 105 | 102 | 50-150 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 103 | 100 | 50-150 | 3 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 110 | 107 | 50-150 | 3 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 104 | 100 | 43-133 | 4 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 102 | 102 | 50-150 | 0 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 104 | 103 | 50-150 | 1 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 102 | 100 | 50-150 | 2 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 102 | 103 | 50-150 | 1 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 96 | 96 | 48-145 | 0 |
| Toluene | ug/L (ppb) | 10 | <1 | 108 | 108 | 50-150 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 95 | 91 | 37-152 | 4 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 111 | 110 | 50-150 | 1 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 104 | 103 | 50-150 | 1 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 108 | 108 | 50-150 | 0 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 103 | 50-150 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 99 | 99 | 33-164 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 107 | 106 | 50-150 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 106 | 104 | 50-150 | 2 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 108 | 108 | 50-150 | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 105 | 103 | 50-150 | 2 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 106 | 107 | 50-150 | 1 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 107 | 107 | 50-150 | 0 |
| Styrene | ug/L (ppb) | 10 | <1 | 101 | 99 | 50-150 | 2 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 105 | 105 | 50-150 | 0 |
| Bromoform | ug/L (ppb) | 10 | <5 | 99 | 96 | 23-161 | 3 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 104 | 106 | 50-150 | 2 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 103 | 105 | 50-150 | 2 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 102 | 103 | 50-150 | 1 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 113 | 111 | 57-162 | 2 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 107 | 107 | 33-151 | 0 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 104 | 103 | 50-150 | 1 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 102 | 102 | 50-150 | 0 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 103 | 104 | 50-150 | 1 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 102 | 102 | 50-150 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 102 | 102 | 46-139 | 0 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 102 | 103 | 46-140 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 102 | 103 | 50-150 | 1 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 102 | 100 | 50-150 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 103 | 50-150 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 94 | 85 | 50-150 | 10 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 95 | 90 | 50-150 | 5 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 93 | 92 | 42-150 | 1 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 90 | 86 | 50-150 | 5 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 90 | 88 | 44-155 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 104 | 104 | 49-149 | 0 |
| Chloromethane | ug/L (ppb) | 10 | 100 | 100 | 34-143 | 0 |
| Vinyl chloride | ug/L (ppb) | 10 | 104 | 107 | 43-149 | 3 |
| Bromomethane | ug/L (ppb) | 10 | 113 | 104 | 28-182 | 8 |
| Chloroethane | ug/L (ppb) | 10 | 112 | 114 | 59-157 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 106 | 99 | 59-141 | 7 |
| Acetone | ug/L (ppb) | 50 | 55 | 65 | 20-139 | 17 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 99 | 102 | 67-138 | 3 |
| Hexane | ug/L (ppb) | 10 | 100 | 103 | 50-161 | 3 |
| Methylene chloride | ug/L (ppb) | 10 | 95 | 101 | 29-192 | 6 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 103 | 105 | 70-130 | 2 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 104 | 106 | 70-130 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 106 | 108 | 70-130 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 111 | 114 | 71-148 | 3 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 105 | 107 | 70-130 | 2 |
| Chloroform | ug/L (ppb) | 10 | 99 | 103 | 70-130 | 4 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 85 | 89 | 50-157 | 5 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 105 | 108 | 70-130 | 3 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 103 | 106 | 70-130 | 3 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| Benzene | ug/L (ppb) | 10 | 107 | 109 | 70-130 | 2 |
| Trichloroethene | ug/L (ppb) | 10 | 100 | 103 | 70-130 | 3 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Bromodichloromethane | ug/L (ppb) | 10 | 98 | 102 | 70-130 | 4 |
| Dibromomethane | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 96 | 101 | 70-130 | 5 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 98 | 99 | 70-130 | 1 |
| Toluene | ug/L (ppb) | 10 | 107 | 107 | 70-130 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 96 | 97 | 70-130 | 1 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 108 | 108 | 70-130 | 0 |
| 2-Hexanone | ug/L (ppb) | 50 | 98 | 98 | 66-132 | 0 |
| 1,3-Dichloropropane | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| Tetrachloroethene | ug/L (ppb) | 10 | 105 | 104 | 70-130 | 1 |
| Dibromochloromethane | ug/L (ppb) | 10 | 97 | 98 | 63-142 | 1 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 104 | 105 | 70-130 | 1 |
| Chlorobenzene | ug/L (ppb) | 10 | 105 | 104 | 70-130 | 1 |
| Ethylbenzene | ug/L (ppb) | 10 | 107 | 107 | 70-130 | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| m,p-Xylene | ug/L (ppb) | 20 | 106 | 106 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 106 | 106 | 70-130 | 0 |
| Styrene | ug/L (ppb) | 10 | 101 | 103 | 70-130 | 2 |
| Isopropylbenzene | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| Bromoform | ug/L (ppb) | 10 | 96 | 96 | 50-157 | 0 |
| n-Propylbenzene | ug/L (ppb) | 10 | 106 | 105 | 70-130 | 1 |
| Bromobenzene | ug/L (ppb) | 10 | 105 | 102 | 70-130 | 3 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 102 | 102 | 52-150 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 109 | 108 | 75-140 | 1 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 105 | 105 | 40-153 | 0 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 104 | 102 | 70-130 | 2 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 103 | 99 | 70-130 | 4 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 105 | 104 | 70-130 | 1 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 103 | 103 | 70-130 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 104 | 104 | 70-130 | 0 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 105 | 105 | 70-130 | 0 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 103 | 70-130 | 1 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 103 | 102 | 70-130 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 104 | 105 | 70-130 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 93 | 94 | 70-130 | 1 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 93 | 97 | 70-130 | 4 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 101 | 102 | 70-130 | 1 |
| Naphthalene | ug/L (ppb) | 10 | 87 | 92 | 61-133 | 6 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 89 | 93 | 69-143 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 411115-01 1/0.25 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | <0.05 | 59 | 54 | 50-150 | 9 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | <0.05 | 64 | 62 | 29-118 | 3 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | <0.05 | 64 | 63 | 10-174 | 2 |
| Acenaphthylene | ug/L (ppb) | 10 | <0.005 | 72 | 66 | 50-150 | 9 |
| Acenaphthene | ug/L (ppb) | 10 | <0.005 | 73 | 73 | 21-127 | 0 |
| Fluorene | ug/L (ppb) | 10 | <0.005 | 81 | 80 | 50-150 | 1 |
| Phenanthrene | ug/L (ppb) | 10 | 0.012 | 81 | 80 | 50-150 | 1 |
| Anthracene | ug/L (ppb) | 10 | <0.005 | 86 | 80 | 50-150 | 7 |
| Fluoranthene | ug/L (ppb) | 10 | 0.0058 | 75 | 74 | 50-150 | 1 |
| Pyrene | ug/L (ppb) | 10 | 0.0072 | 105 | 110 | 50-150 | 5 |
| Benz(a)anthracene | ug/L (ppb) | 10 | <0.005 | 82 | 84 | 50-150 | 2 |
| Chrysene | ug/L (ppb) | 10 | <0.005 | 88 | 86 | 50-150 | 2 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | <0.005 | 93 | 91 | 50-150 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | <0.005 | 92 | 102 | 50-150 | 10 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | <0.005 | 118 | 114 | 50-150 | 3 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | <0.005 | 75 | 63 | 37-129 | 17 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | <0.005 | 61 | 52 | 33-134 | 16 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | <1 | 53 | 44 | 19-140 | 19 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 64 | 69 | 58-93 | 8 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 65 | 72 | 63-97 | 10 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 67 | 72 | 62-99 | 7 |
| Acenaphthylene | ug/L (ppb) | 10 | 82 | 87 | 68-111 | 6 |
| Acenaphthene | ug/L (ppb) | 10 | 81 | 87 | 67-104 | 7 |
| Fluorene | ug/L (ppb) | 10 | 90 | 93 | 70-130 | 3 |
| Phenanthrene | ug/L (ppb) | 10 | 91 | 91 | 70-130 | 0 |
| Anthracene | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| Fluoranthene | ug/L (ppb) | 10 | 89 | 88 | 70-130 | 1 |
| Pyrene | ug/L (ppb) | 10 | 86 | 85 | 70-130 | 1 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 88 | 90 | 70-130 | 2 |
| Chrysene | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 93 | 94 | 70-130 | 1 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 92 | 91 | 70-130 | 1 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 96 | 95 | 70-130 | 1 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 89 | 97 | 70-130 | 9 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 92 | 99 | 70-130 | 7 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 83 | 91 | 68-131 | 9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 411072-02 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 20.5 | 74 b | 85 b | 75-125 | 14 b |
| Lead | ug/L (ppb) | 10 | <1 | 109 | 111 | 75-125 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 99 | 80-120 |
| Lead | ug/L (ppb) | 10 | 96 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 411186-01 x10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 42.5 | 71 b | 80 b | 75-125 | 12 b |
| Lead | ug/L (ppb) | 10 | <10 | 95 | 97 | 75-125 | 2 |
| Manganese | ug/L (ppb) | 10 | 6,620 | 0 b | 0 b | 75-125 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 91 | 80-120 |
| Lead | ug/L (ppb) | 10 | 95 | 80-120 |
| Manganese | ug/L (ppb) | 10 | 97 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/07/24

Project: Whidbey Marine PO 0204475-001, F&BI 411101

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 411153-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 42 | 43 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 96 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

F2/K5/VW3

1-

TURNAROUND TIME

☒ Standard turnaround
☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL



☐ Archive samples

☐ Other _____

Default: Dispose after 30

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | Notes | |
|-------------|--------|--------------|--------------|------------------|-----------|--------------------|----------|--|--|---------------|---------------|---|--|---------------------------------|-----|-------|-----------------|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | ME5 BTEX EPA 8021 | TSS NWTPH-HCD | VOCs EPA 8260 | PAHs EPA 8270 | tot/DIS ASAP6 PCBs EPA 8082 | nitrate, nitrite, chloride, sulfate | ammonia, alkalinity, sulfide | TOC | | D.S. ferrous Mn |
| MW-100-4Q24 | 01A-Q | 11/6/24 | 1200 | H ₂ O | 17 | X | X | X | X | X | X | X | X | X | X | X | X |
| MW-110-4Q24 | 02 | | 1325 | | 17 | X | X | X | X | X | X | X | X | X | X | X | |
| MW-120-4Q24 | 03 | | 1100 | | 17 | X | X | X | X | X | X | X | X | X | X | X | |
| MW-17D-4Q24 | 04 | | 1415 | | 17 | X | X | X | X | X | X | X | X | X | X | X | |
| MW-19D-4Q24 | 05A-K | | 1025 | | 11 | X | X | | X | X | X | X | | | | | |
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Friedman & Bruya, Inc.
Ph. (206) 285-8282

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|---------|----------|------|
| Relinquished by:  | Akden Nakamura | HA | 11/7/24 | 0805 |
| Received by:  | Eric Jones | ESR | 11/7/24 | 0910 |
| Relinquished by: | | | 11/16/24 | |
| Received by: | | | | |

DATE POSTED 5/17

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 41101 CLIENT HNA INITIALS/ 11/07/24 AP
DATE: _____

If custody seals are present on cooler, are they intact? ☐ NA ☒ YES ☐ NO

Cooler/Sample temperature _____ °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 11/07/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

| | | |
|--------------------|--|---|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ <input type="checkbox"/> Not on COC/label |
| # of Containers | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | _____ |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold | _____ |

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



3600 Fremont Ave N

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 411101,

Work Order Number: 2411130

November 14, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 4 sample(s) on 11/7/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

www.fremontanalytical.com

CLIENT: Friedman & Bruya
Project: 411101
Work Order: 2411130

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|---------------------|
| 2411130-001 | MW-10D-4Q24 | 11/06/2024 12:00 PM | 11/07/2024 10:51 AM |
| 2411130-002 | MW-11D-4Q24 | 11/06/2024 1:25 PM | 11/07/2024 10:51 AM |
| 2411130-003 | MW-12D-4Q24 | 11/06/2024 11:00 AM | 11/07/2024 10:51 AM |
| 2411130-004 | MW-17D-4Q24 | 11/06/2024 2:15 PM | 11/07/2024 10:51 AM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 411101

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 411101

Lab ID: 2411130-001

Client Sample ID: MW-10D-4Q24

Collection Date: 11/6/2024 12:00:00 PM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|---------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R95662 | | Analyst: CO |
| Methane | 0.00702 | 0.00500 | | mg/L | 1 | 11/12/2024 2:31:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:31:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:31:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 45790 | | Analyst: OP |
| Chloride | 18.2 | 2.00 | D | mg/L | 10 | 11/8/2024 8:01:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 3:55:00 AM |
| Nitrate (as N) | 3.60 | 0.200 | | mg/L | 1 | 11/8/2024 3:55:00 AM |
| Sulfate | 15.7 | 10.0 | D | mg/L | 10 | 11/8/2024 8:01:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R95639 | | Analyst: OP |
| Total Organic Carbon | 0.943 | 0.700 | | mg/L | 1 | 11/11/2024 7:07:00 AM |
| <u>Total Alkalinity by EPA 310.2</u> | | | | Batch ID: R95619 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 81.5 | 12.5 | D | mg/L | 5 | 11/11/2024 4:02:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 45805 | | Analyst: OP |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 11:59:00 AM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R95600 | | Analyst: BB |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |

CLIENT: Friedman & Bruya
Project: 411101

Lab ID: 2411130-002

Collection Date: 11/6/2024 1:25:00 PM

Client Sample ID: MW-11D-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R95662 | | Analyst: CO |
| Methane | ND | 0.00500 | | mg/L | 1 | 11/12/2024 2:33:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:33:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:33:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 45790 | | Analyst: OP |
| Chloride | 20.7 | 2.00 | D | mg/L | 10 | 11/8/2024 8:24:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 5:04:00 AM |
| Nitrate (as N) | 1.64 | 0.200 | | mg/L | 1 | 11/8/2024 5:04:00 AM |
| Sulfate | 14.2 | 10.0 | D | mg/L | 10 | 11/8/2024 8:24:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R95639 | | Analyst: OP |
| Total Organic Carbon | 1.44 | 0.700 | | mg/L | 1 | 11/11/2024 7:28:00 AM |
| <u>Total Alkalinity by EPA 310.2</u> | | | | Batch ID: R95619 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 39.6 | 5.00 | D | mg/L | 2 | 11/11/2024 3:43:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 45805 | | Analyst: OP |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 12:04:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R95600 | | Analyst: BB |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |

CLIENT: Friedman & Bruya
Project: 411101

Lab ID: 2411130-003

Client Sample ID: MW-12D-4Q24

Collection Date: 11/6/2024 11:00:00 AM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|-----------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R95662 | | Analyst: CO |
| Methane | ND | 0.00500 | | mg/L | 1 | 11/12/2024 2:35:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:35:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:35:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 45790 | | Analyst: OP |
| Chloride | 12.3 | 2.00 | D | mg/L | 10 | 11/8/2024 8:47:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 5:27:00 AM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 5:27:00 AM |
| Sulfate | 2.08 | 1.00 | | mg/L | 1 | 11/11/2024 5:14:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R95639 | | Analyst: OP |
| Total Organic Carbon | 10.8 | 0.700 | | mg/L | 1 | 11/11/2024 8:00:00 AM |
| <u>Total Alkalinity by EPA 310.2</u> | | | | Batch ID: R95619 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 279 | 25.0 | D | mg/L | 10 | 11/11/2024 3:46:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 45805 | | Analyst: OP |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 12:09:00 PM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R95600 | | Analyst: BB |
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |

CLIENT: Friedman & Bruya
Project: 411101

Lab ID: 2411130-004

Collection Date: 11/6/2024 2:15:00 PM

Client Sample ID: MW-17D-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R95662 Analyst: CO

| | | | | | | |
|---------|-------|--------|---|------|---|-----------------------|
| Methane | 0.838 | 0.0250 | D | mg/L | 5 | 11/12/2024 2:52:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:40:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:40:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 45790 Analyst: OP

| | | | | | | |
|----------------|------|-------|---|------|----|----------------------|
| Chloride | 35.0 | 2.00 | D | mg/L | 10 | 11/8/2024 9:57:00 PM |
| Nitrite (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 5:50:00 AM |
| Nitrate (as N) | ND | 0.200 | | mg/L | 1 | 11/8/2024 5:50:00 AM |
| Sulfate | 10.5 | 10.0 | D | mg/L | 10 | 11/8/2024 9:57:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R95639 Analyst: OP

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 1.74 | 0.700 | | mg/L | 1 | 11/11/2024 9:17:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R95619 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 179 | 25.0 | D | mg/L | 10 | 11/11/2024 3:48:00 PM |
|---|-----|------|---|------|----|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 45805 Analyst: OP

| | | | | | | |
|-------------------|----|-------|--|------|---|----------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/8/2024 1:10:00 PM |
|-------------------|----|-------|--|------|---|----------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R95600 Analyst: BB

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:41:46 AM |
|---------|----|--------|--|------|---|-----------------------|

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | | |
|----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-95619 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: MBLKW | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | | | SeqNo: 1996046 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-95619 | | SampType: LCS | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: LCSW | | Batch ID: R95619 | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996047 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|
| Alkalinity, Total (As CaCO3) | 26.2 | 2.50 | 25.00 | 0 | 105 | 83.8 | 121 | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|------|-----------------------|---------------------------|-------------|--------------|----------------|------|--|
| Sample ID: 2411094-001BDUP | | SampType: DUP | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | | |
| Client ID: BATCH | | Batch ID: R95619 | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996049 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|
| Alkalinity, Total (As CaCO3) | 44.9 | 2.50 | | | | | | 46.00 | 2.42 | 20 | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|

| | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411119-001ADUP | | SampType: DUP | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: BATCH | | Batch ID: R95619 | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996059 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|
| Alkalinity, Total (As CaCO3) | 67.7 | 2.50 | | | | | | 68.60 | 1.32 | 20 | E |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|-----------|-------------|-----------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID: MB-45805 | SampType: MBLK | Units: mg/L | | | Prep Date: 11/8/2024 | | | | RunNo: 95592 | | |
| Client ID: MBLKW | Batch ID: 45805 | Analysis Date: 11/8/2024 | | | | | | | SeqNo: 1994856 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: LCS-45805 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: LCSW | | Batch ID: 45805 | | | Analysis Date: 11/8/2024 | | | | SeqNo: 1994857 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.445 0.150 0.5000 0 89.0 81.7 122

| | | | | | | | | | | | | |
|----------------------------|--------|-----------------|-----------|-------------|--------------------------|----------|----------------------|-------------|----------------|--------------|------|--|
| Sample ID: 2411119-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: BATCH | | Batch ID: 45805 | | | Analysis Date: 11/8/2024 | | | | SeqNo: 1994859 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|---------------------------------|------|-----------------------------|-----------------------|-------------|---------------------|----------|------|
| Sample ID: 2411119-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: BATCH | | Batch ID: 45805 | | Analysis Date: 11/8/2024 | | | SeqNo: 1994860 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: 2411119-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 11/8/2024 | | | RunNo: 95592 | | |
| Client ID: BATCH | | Batch ID: 45805 | | | Analysis Date: 11/8/2024 | | | | SeqNo: 1994861 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 0 30 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-45790 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: MBLKW | | Batch ID: 45790 | | | Analysis Date: 11/7/2024 | | | SeqNo: 1995162 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Chloride | ND | 0.200 | | | | | | | | | |
| Nitrite (as N) | ND | 0.200 | | | | | | | | | |
| Nitrate (as N) | ND | 0.200 | | | | | | | | | |
| Sulfate | ND | 1.00 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411102-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995169 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|-------|----|---|
| Chloride | 7.67 | 0.200 | | | | | | 7.706 | 0.468 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Nitrate (as N) | 0.578 | 0.200 | | | | | | 0.5830 | 0.861 | 20 | H |
| Sulfate | 7.82 | 1.00 | | | | | | 7.770 | 0.680 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411102-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995170 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|------|----|-----|--|--|--|---|
| Chloride | 8.31 | 0.200 | 0.7500 | 7.706 | 80.8 | 80 | 120 | | | | E |
| Nitrite (as N) | 0.749 | 0.200 | 0.7500 | 0 | 99.9 | 80 | 120 | | | | H |
| Nitrate (as N) | 1.38 | 0.200 | 0.7500 | 0.5830 | 106 | 80 | 120 | | | | H |
| Sulfate | 11.5 | 1.00 | 3.750 | 7.770 | 99.4 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|-----------------------------|---------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411102-001BMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995171 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|------|----|-----|--------|-------|----|---|
| Chloride | 8.33 | 0.200 | 0.7500 | 7.706 | 83.7 | 80 | 120 | 8.312 | 0.264 | 20 | E |
| Nitrite (as N) | 0.753 | 0.200 | 0.7500 | 0 | 100 | 80 | 120 | 0.7490 | 0.533 | 20 | H |
| Nitrate (as N) | 1.39 | 0.200 | 0.7500 | 0.5830 | 107 | 80 | 120 | 1.377 | 0.796 | 20 | H |

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2411102-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | Batch ID: 45790 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995171 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 11.6 | 1.00 | 3.750 | 7.770 | 101 | 80 | 120 | 11.50 | 0.581 | 20 | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|--------|----------|------|
| Sample ID: 2411130-001ADUP | SampType: DUP | Units: mg/L | | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | | |
| Client ID: MW-10D-4Q24 | Batch ID: 45790 | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995205 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 14.9 | 0.200 | | | | | | 14.93 | 0.0536 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 3.60 | 0.200 | | | | | | 3.599 | 0.0556 | 20 | |
| Sulfate | 16.3 | 1.00 | | | | | | 16.31 | 0.245 | 20 | |

| Sample ID: 2411130-001AMS | SampType: MS | Units: mg/L | | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | | |
|----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: MW-10D-4Q24 | Batch ID: 45790 | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995206 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 15.4 | 0.200 | 0.7500 | 14.93 | 64.9 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.757 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | | | | |
| Nitrate (as N) | 4.35 | 0.200 | 0.7500 | 3.599 | 99.9 | 80 | 120 | | | | |
| Sulfate | 20.1 | 1.00 | 3.750 | 16.31 | 101 | 80 | 120 | | | | |

NOTES:

S - Outlying spike recoveries were associated with this sample.

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: LCS-45790 | SampType: LCS | Units: mg/L | | | | Prep Date: 11/8/2024 | | | RunNo: 95604 | | |
| Client ID: LCSW | Batch ID: 45790 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995182 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.740 | 0.200 | 0.7500 | 0 | 98.7 | 90 | 110 | | | | |
| Nitrite (as N) | 0.719 | 0.200 | 0.7500 | 0 | 95.9 | 90 | 110 | | | | |
| Nitrate (as N) | 0.738 | 0.200 | 0.7500 | 0 | 98.4 | 90 | 110 | | | | |
| Sulfate | 3.67 | 1.00 | 3.750 | 0 | 97.8 | 90 | 110 | | | | |

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R95600 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: MBLKW | | Batch ID: R95600 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995054 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R95600 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: LCSW | | Batch ID: R95600 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995055 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.201 | 0.0500 | 0.2000 | 0 | 101 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411119-001CDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: BATCH | | Batch ID: R95600 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995057 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | 0 | | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411119-001CMS | | SampType: MS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: BATCH | | Batch ID: R95600 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995058 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.195 | 0.0500 | 0.2000 | 0.02592 | 84.5 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411119-001CMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95600 | | |
| Client ID: BATCH | | Batch ID: R95600 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995059 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.191 | 0.0500 | 0.2000 | 0.02592 | 82.6 | 80 | 120 | 0.1948 | 1.93 | 20 | |

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-R95639 | SampType: MBLK | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MBLKW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995924 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-R95639 | SampType: LCS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: LCSW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 26.2 | 0.700 | 25.00 | 0 | 105 | 87.6 | 109 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.69 | 0.700 | | | | | | 1.666 | 1.19 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMS | SampType: MS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995928 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.0 | 0.700 | 25.00 | 1.666 | 101 | 73.1 | 113 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995929 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.3 | 0.700 | 25.00 | 1.666 | 102 | 73.1 | 113 | 26.97 | 1.09 | 30 | | |

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|-------------|----------------------------------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: 2411179-001BDUP | SampType: DUP | Units: mg/L | | | Prep Date: 11/11/2024 | | | RunNo: 95639 | | | |
| Client ID: BATCH | Batch ID: R95639 | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995917 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 4.60 | 0.700 | | | | | | 4.801 | 4.38 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2411179-001BMS | SampType: MS | Units: mg/L | | | | Prep Date: 11/11/2024 | | | RunNo: 95639 | | |
| Client ID: BATCH | Batch ID: R95639 | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995918 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 29.7 | 0.700 | 25.00 | 4.801 | 99.6 | 73.1 | 113 | | | | |

Work Order: 2411130
CLIENT: Friedman & Bruya
Project: 411101

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: LCS-R95662 | | SampType: LCS | | | Units: ppmv | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: LCSW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | | | SeqNo: 1996436 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|-----|------|-----|--|--|--|--|
| Methane | 1,080 | 0.00500 | 1,000 | 0 | 108 | 73.6 | 124 | | | | |
| Ethene | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.3 | 122 | | | | |
| Ethane | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-R95662 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: MBLKW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | | | SeqNo: 1996435 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2411119-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: BATCH | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | | | SeqNo: 1996421 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2411130

Logged by: Clare Griggs

Date Received: 11/7/2024 10:51:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 5.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

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November 19, 2024

Heather Good, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Good:

Included are the results from the testing of material submitted on November 8, 2024 from the Whidbey Marine PO 0204475-001, F&BI 411132 project. There are 40 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Haley Aldrich Data, Victoria Pehlivan
HNA1119R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 8, 2024 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Whidbey Marine PO 0204475-001, F&BI 411132 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Haley & Aldrich, Inc</u> |
|----------------------|---------------------------------|
| 411132 -01 | MW-20D-4Q24 |
| 411132 -02 | MW-22D-4Q24 |
| 411132 -03 | MW-23D-4Q24 |
| 411132 -04 | MW-9D-4Q24 |
| 411132 -05 | FD-01-4Q24 |
| 411132 -06 | Trip Blank |

Samples MW-23D-4Q24, MW-9D-4Q24, and FD-01-4Q24 were sent to Alliance Technical Group for nitrate, nitrite, chloride, sulfate, ammonia, alkalinity, sulfide, dissolved gases, and TOC analyses. The report is enclosed.

The 8260D calibration standard exceeded the acceptance criteria for 2,2-dichloropropane. The compound was not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier. The results are not considered estimates.

The 8260D laboratory control sample and laboratory control sample duplicate did not meet the relative percent difference for several compounds. The analytes were not detected therefore the data were acceptable.

The dissolved metals samples were filtered at Friedman and Bruya. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

Date Extracted: 11/11/24

Date Analyzed: 11/12/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | Surrogate <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|--|
| MW-20D-4Q24 411132-01 | <100 | 105 |
| MW-22D-4Q24 411132-02 | <100 | 110 |
| MW-23D-4Q24 411132-03 1/40 | 59,000 | 106 |
| MW-9D-4Q24 411132-04 1/20 | 73,000 | 107 |
| FD-01-4Q24 411132-05 1/20 | 67,000 | 115 |
| Method Blank 04-2706 MB | <100 | 107 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

Date Extracted: 11/13/24

Date Analyzed: 11/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

| <u>Sample ID</u> | <u>Diesel Range</u> | <u>Motor Oil Range</u> | <u>Surrogate</u> |
|------------------|-------------------------------------|-------------------------------------|------------------|
| Laboratory ID | (C ₁₀ -C ₂₅) | (C ₂₅ -C ₃₆) | (% Recovery) |
| | | | (Limit 50-150) |
| MW-20D-4Q24 | 93 x | <250 | 95 |
| 411132-01 | | | |
| MW-22D-4Q24 | <50 | <250 | 85 |
| 411132-02 | | | |
| MW-23D-4Q24 | 4,500 x | <250 | 101 |
| 411132-03 | | | |
| MW-9D-4Q24 | 3,300 x | <250 | 85 |
| 411132-04 | | | |
| FD-01-4Q24 | 3,100 x | <300 | 79 |
| 411132-05 1/1.2 | | | |
| Method Blank | <50 | <250 | 96 |
| 04-2805 MB2 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-20D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-01 |
| Date Analyzed: | 11/15/24 | Data File: | 111507.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 78 | 126 |
| Toluene-d8 | 101 | 84 | 115 |
| 4-Bromofluorobenzene | 103 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 1.5 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 5.2 |
| Hexane | <5 | o-Xylene | 1.9 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 k | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | 3.4 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-22D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-02 |
| Date Analyzed: | 11/15/24 | Data File: | 111508.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 112 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 89 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | 2.7 |
| Acetone | <50 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | 6.2 |
| Hexane | <5 | o-Xylene | 2.4 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 k | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.35 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-23D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-03 1/100 |
| Date Analyzed: | 11/15/24 | Data File: | 111511.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 78 | 126 |
| Toluene-d8 | 100 | 84 | 115 |
| 4-Bromofluorobenzene | 97 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 1,800 |
| Acetone | <5,000 | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 6,000 |
| Hexane | <500 | o-Xylene | 1,400 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 100 |
| 2,2-Dichloropropane | <100 k | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 310 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 680 |
| Benzene | 11 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 14,000 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 470 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-9D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-04 1/100 |
| Date Analyzed: | 11/15/24 | Data File: | 111509.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 78 | 126 |
| Toluene-d8 | 97 | 84 | 115 |
| 4-Bromofluorobenzene | 96 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 3,600 |
| Acetone | <5,000 | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 13,000 |
| Hexane | <500 | o-Xylene | 6,300 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | 100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 220 |
| 2,2-Dichloropropane | <100 k | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 580 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,200 |
| Benzene | <3.5 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 2,300 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 660 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | FD-01-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-05 1/100 |
| Date Analyzed: | 11/15/24 | Data File: | 111510.D |
| Matrix: | Water | Instrument: | GCMS11 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 106 | 78 | 126 |
| Toluene-d8 | 96 | 84 | 115 |
| 4-Bromofluorobenzene | 95 | 72 | 130 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <100 | 1,3-Dichloropropane | <100 |
| Chloromethane | <1,000 | Tetrachloroethene | <100 |
| Vinyl chloride | <2 | Dibromochloromethane | <50 |
| Bromomethane | <500 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <100 | Chlorobenzene | <100 |
| Trichlorofluoromethane | <100 | Ethylbenzene | 3,400 |
| Acetone | <5,000 | 1,1,1,2-Tetrachloroethane | <100 |
| 1,1-Dichloroethene | <100 | m,p-Xylene | 12,000 |
| Hexane | <500 | o-Xylene | 5,800 |
| Methylene chloride | <500 | Styrene | <100 |
| Methyl t-butyl ether (MTBE) | <100 | Isopropylbenzene | <100 |
| trans-1,2-Dichloroethene | <100 | Bromoform | <500 |
| 1,1-Dichloroethane | <100 | n-Propylbenzene | 220 |
| 2,2-Dichloropropane | <100 k | Bromobenzene | <100 |
| cis-1,2-Dichloroethene | <100 | 1,3,5-Trimethylbenzene | 580 |
| Chloroform | <100 | 1,1,2,2-Tetrachloroethane | <20 |
| 2-Butanone (MEK) | <2,000 | 1,2,3-Trichloropropane | <100 |
| 1,2-Dichloroethane (EDC) | <20 | 2-Chlorotoluene | <100 |
| 1,1,1-Trichloroethane | <100 | 4-Chlorotoluene | <100 |
| 1,1-Dichloropropene | <100 | tert-Butylbenzene | <100 |
| Carbon tetrachloride | <50 | 1,2,4-Trimethylbenzene | 2,200 |
| Benzene | <3.5 | sec-Butylbenzene | <100 |
| Trichloroethene | <50 | p-Isopropyltoluene | <100 |
| 1,2-Dichloropropane | <100 | 1,3-Dichlorobenzene | <100 |
| Bromodichloromethane | <50 | 1,4-Dichlorobenzene | <100 |
| Dibromomethane | <100 | 1,2-Dichlorobenzene | <100 |
| 4-Methyl-2-pentanone | <1,000 | 1,2-Dibromo-3-chloropropane | <1,000 |
| cis-1,3-Dichloropropene | <40 | 1,2,4-Trichlorobenzene | <100 |
| Toluene | 2,200 | Hexachlorobutadiene | <50 |
| trans-1,3-Dichloropropene | <40 | Naphthalene | 730 |
| 1,1,2-Trichloroethane | <50 | 1,2,3-Trichlorobenzene | <100 |
| 2-Hexanone | <1,000 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 04-2786 mb |
| Date Analyzed: | 11/15/24 | Data File: | 111508.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | MD |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 71 | 132 |
| Toluene-d8 | 84 | 68 | 139 |
| 4-Bromofluorobenzene | 92 | 62 | 136 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.02 | Dibromochloromethane | <0.5 |
| Bromomethane | <5 | 1,2-Dibromoethane (EDB) | <0.01 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <50 k | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Hexane | <5 | o-Xylene | <1 |
| Methylene chloride | <5 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <5 |
| 1,1-Dichloroethane | <1 | n-Propylbenzene | <1 |
| 2,2-Dichloropropane | <1 k | Bromobenzene | <1 |
| cis-1,2-Dichloroethene | <1 | 1,3,5-Trimethylbenzene | <1 |
| Chloroform | <1 | 1,1,2,2-Tetrachloroethane | <0.2 |
| 2-Butanone (MEK) | <20 k | 1,2,3-Trichloropropane | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 | 2-Chlorotoluene | <1 |
| 1,1,1-Trichloroethane | <1 | 4-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | tert-Butylbenzene | <1 |
| Carbon tetrachloride | <0.5 | 1,2,4-Trimethylbenzene | <1 |
| Benzene | <0.035 | sec-Butylbenzene | <1 |
| Trichloroethene | <0.5 | p-Isopropyltoluene | <1 |
| 1,2-Dichloropropane | <1 | 1,3-Dichlorobenzene | <1 |
| Bromodichloromethane | <0.5 | 1,4-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,2-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dibromo-3-chloropropane | <10 |
| cis-1,3-Dichloropropene | <0.4 | 1,2,4-Trichlorobenzene | <1 |
| Toluene | <1 | Hexachlorobutadiene | <0.5 |
| trans-1,3-Dichloropropene | <0.4 | Naphthalene | <1 |
| 1,1,2-Trichloroethane | <0.5 | 1,2,3-Trichlorobenzene | <1 |
| 2-Hexanone | <10 | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-20D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-01 |
| Date Analyzed: | 11/12/24 | Data File: | 111135.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 107 ca | 15 | 144 |
| 2-Fluorobiphenyl | 79 | 25 | 128 |
| 2,4,6-Tribromophenol | 94 ca | 10 | 142 |
| Terphenyl-d14 | 82 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.47 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-22D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-02 |
| Date Analyzed: | 11/12/24 | Data File: | 111136.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 112 ca | 15 | 144 |
| 2-Fluorobiphenyl | 82 | 25 | 128 |
| 2,4,6-Tribromophenol | 108 ca | 10 | 142 |
| Terphenyl-d14 | 90 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 0.32 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | 0.021 |
| Anthracene | <0.02 |
| Fluoranthene | 0.029 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-23D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-03 |
| Date Analyzed: | 11/12/24 | Data File: | 111137.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 108 ca | 15 | 144 |
| 2-Fluorobiphenyl | 71 | 25 | 128 |
| 2,4,6-Tribromophenol | 123 ca | 10 | 142 |
| Terphenyl-d14 | 76 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 240 ve |
| 2-Methylnaphthalene | 57 |
| 1-Methylnaphthalene | 27 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.12 |
| Fluorene | 0.15 |
| Phenanthrene | 0.13 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|-------------|-------------|-------------------------------|
| Client Sample ID: | MW-23D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-03 1/20 |
| Date Analyzed: | 11/13/24 | Data File: | 111238.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 d | 15 | 144 |
| 2-Fluorobiphenyl | 70 d | 25 | 128 |
| 2,4,6-Tribromophenol | 96 d | 10 | 142 |
| Terphenyl-d14 | 68 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|-------------|-----------------------------|
| Naphthalene | 240 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-9D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-04 |
| Date Analyzed: | 11/12/24 | Data File: | 111138.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 109 ca | 15 | 144 |
| 2-Fluorobiphenyl | 67 | 25 | 128 |
| 2,4,6-Tribromophenol | 112 ca | 10 | 142 |
| Terphenyl-d14 | 74 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 340 ve |
| 2-Methylnaphthalene | 90 ve |
| 1-Methylnaphthalene | 47 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.23 |
| Fluorene | 0.23 |
| Phenanthrene | 0.25 |
| Anthracene | 0.098 |
| Fluoranthene | 0.030 |
| Pyrene | 0.039 |
| Benz(a)anthracene | 0.035 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | 0.025 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.041 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | MW-9D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-04 1/20 |
| Date Analyzed: | 11/13/24 | Data File: | 111239.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 66 d | 15 | 144 |
| 2-Fluorobiphenyl | 60 d | 25 | 128 |
| 2,4,6-Tribromophenol | 80 d | 10 | 142 |
| Terphenyl-d14 | 64 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 370 |
| 2-Methylnaphthalene | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | FD-01-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-05 |
| Date Analyzed: | 11/12/24 | Data File: | 111139.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 119 ca | 15 | 144 |
| 2-Fluorobiphenyl | 73 | 25 | 128 |
| 2,4,6-Tribromophenol | 128 ca | 10 | 142 |
| Terphenyl-d14 | 85 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | 390 ve |
| 2-Methylnaphthalene | 100 ve |
| 1-Methylnaphthalene | 54 |
| Acenaphthylene | <0.02 |
| Acenaphthene | 0.24 |
| Fluorene | 0.27 |
| Phenanthrene | 0.27 |
| Anthracene | 0.11 |
| Fluoranthene | 0.027 |
| Pyrene | 0.041 |
| Benz(a)anthracene | 0.035 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | 0.025 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | 0.041 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|-------------------------------|
| Client Sample ID: | FD-01-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 411132-05 1/20 |
| Date Analyzed: | 11/13/24 | Data File: | 111240.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 68 d | 15 | 144 |
| 2-Fluorobiphenyl | 68 d | 25 | 128 |
| 2,4,6-Tribromophenol | 93 d | 10 | 142 |
| Terphenyl-d14 | 72 d | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|---------------------|-----------------------------|
| Naphthalene | 420 |
| 2-Methylnaphthalene | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|----------------|-------------|-------------------------------|
| Client Sample ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | Not Applicable | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/11/24 | Lab ID: | 04-2800 mb |
| Date Analyzed: | 11/11/24 | Data File: | 111114.D |
| Matrix: | Water | Instrument: | GCMS12 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Nitrobenzene-d5 | 79 | 11 | 173 |
| 2-Fluorobiphenyl | 79 | 25 | 128 |
| 2,4,6-Tribromophenol | 96 | 10 | 140 |
| Terphenyl-d14 | 82 | 50 | 150 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Naphthalene | <0.2 |
| 2-Methylnaphthalene | <0.2 |
| 1-Methylnaphthalene | <0.2 |
| Acenaphthylene | <0.02 |
| Acenaphthene | <0.02 |
| Fluorene | <0.02 |
| Phenanthrene | <0.02 |
| Anthracene | <0.02 |
| Fluoranthene | <0.02 |
| Pyrene | <0.02 |
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |
| Benzo(g,h,i)perylene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-20D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-01 |
| Date Analyzed: | 11/15/24 | Data File: | 411132-01.254 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 5.8 |
| Lead | 1.7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-22D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-02 |
| Date Analyzed: | 11/15/24 | Data File: | 411132-02.255 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 3.2 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|-------------|-------------|-------------------------------|
| Client ID: | MW-23D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-03 |
| Date Analyzed: | 11/15/24 | Data File: | 411132-03.256 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 22 |
| Lead | 3.3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | MW-9D-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-04 |
| Date Analyzed: | 11/16/24 | Data File: | 411132-04.257 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 22 |
| Lead | 3.0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|------------|-------------|-------------------------------|
| Client ID: | FD-01-4Q24 | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | 411132-05 |
| Date Analyzed: | 11/16/24 | Data File: | 411132-05.258 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 23 |
| Lead | 3.1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | Method Blank | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/15/24 | Lab ID: | I4-988 mb |
| Date Analyzed: | 11/15/24 | Data File: | I4-988 mb.063 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|---------------|-------------|-------------------------------|
| Client ID: | MW-20D-4Q24 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | 411132-01 |
| Date Analyzed: | 11/14/24 | Data File: | 411132-01.117 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|---------------|-------------|-------------------------------|
| Client ID: | MW-22D-4Q24 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | 411132-02 |
| Date Analyzed: | 11/14/24 | Data File: | 411132-02.120 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|---------------|-------------|-------------------------------|
| Client ID: | MW-23D-4Q24 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | 411132-03 |
| Date Analyzed: | 11/14/24 | Data File: | 411132-03.121 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 8.7 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | MW-9D-4Q24 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | 411132-04 |
| Date Analyzed: | 11/14/24 | Data File: | 411132-04.122 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.5 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|--------------|-------------|-------------------------------|
| Client ID: | FD-01-4Q24 f | Client: | Haley & Aldrich, Inc |
| Date Received: | 11/08/24 | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | 411132-05 |
| Date Analyzed: | 11/14/24 | Data File: | 411132-05.123 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|-----|
| Arsenic | 2.4 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

| | | | |
|-----------------|----------------|-------------|-------------------------------|
| Client ID: | Method Blank f | Client: | Haley & Aldrich, Inc |
| Date Received: | NA | Project: | Whidbey Marine PO 0204475-001 |
| Date Extracted: | 11/14/24 | Lab ID: | I4-983 mb |
| Date Analyzed: | 11/14/24 | Data File: | I4-983 mb.113 |
| Matrix: | Water | Instrument: | ICPMS3 |
| Units: | ug/L (ppb) | Operator: | SP |

| Analyte: | Concentration ug/L (ppb) |
|----------|-----------------------------|
|----------|-----------------------------|

| | |
|---------|----|
| Arsenic | <1 |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

Date Extracted: 11/12/24

Date Analyzed: 11/13/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | Total Suspended <u>Solids</u> |
|-----------------------------------|----------------------------------|
| MW-20D-4Q24 411132-01 | 110 |
| MW-22D-4Q24 411132-02 | <5 |
| MW-23D-4Q24 411132-03 | 98 |
| MW-9D-4Q24 411132-04 | 10 |
| FD-01-4Q24 411132-05 | 8.1 |
| Method Blank I4-0973 MB | <5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 411097-11 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 98 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 96 | 96 | 65-151 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 411158-05 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|------------------|----------------|------------------------|
| | | | | Recovery MS | |
| Dichlorodifluoromethane | ug/L (ppb) | 10 | <1 | 109 | 27-164 |
| Chloromethane | ug/L (ppb) | 10 | <10 | 102 | 34-141 |
| Vinyl chloride | ug/L (ppb) | 10 | <0.02 | 108 | 16-176 |
| Bromomethane | ug/L (ppb) | 10 | <5 | 112 | 10-193 |
| Chloroethane | ug/L (ppb) | 10 | <1 | 114 | 50-150 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | <1 | 111 | 50-150 |
| Acetone | ug/L (ppb) | 50 | <50 | 57 | 15-179 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| Hexane | ug/L (ppb) | 10 | <5 | 107 | 49-161 |
| Methylene chloride | ug/L (ppb) | 10 | <5 | 70 | 40-143 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | <1 | 107 | 50-150 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 116 | 62-152 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Chloroform | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | <20 | 91 | 34-168 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 108 | 50-150 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Carbon tetrachloride | ug/L (ppb) | 10 | <0.5 | 103 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 108 | 50-150 |
| Trichloroethene | ug/L (ppb) | 10 | <0.5 | 103 | 43-133 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| Bromodichloromethane | ug/L (ppb) | 10 | <0.5 | 103 | 50-150 |
| Dibromomethane | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | <10 | 102 | 50-150 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 101 | 48-145 |
| Toluene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | <0.4 | 96 | 37-152 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | <0.5 | 110 | 50-150 |
| 2-Hexanone | ug/L (ppb) | 50 | <10 | 105 | 50-150 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Tetrachloroethene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Dibromochloromethane | ug/L (ppb) | 10 | <0.5 | 96 | 33-164 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <0.01 | 106 | 50-150 |
| Chlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 108 | 50-150 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 107 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 106 | 50-150 |
| Styrene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Bromoform | ug/L (ppb) | 10 | <5 | 97 | 23-161 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| Bromobenzene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | <0.2 | 114 | 57-162 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | <1 | 106 | 33-151 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | <1 | 103 | 50-150 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | <1 | 102 | 50-150 |
| tert-Butylbenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| sec-Butylbenzene | ug/L (ppb) | 10 | <1 | 104 | 46-139 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | <1 | 106 | 46-140 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 105 | 50-150 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | <10 | 100 | 50-150 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | <0.5 | 105 | 42-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 100 | 50-150 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | <1 | 99 | 44-155 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Dichlorodifluoromethane | ug/L (ppb) | 10 | 92 | 113 | 49-149 | 20 |
| Chloromethane | ug/L (ppb) | 10 | 91 | 105 | 34-143 | 14 |
| Vinyl chloride | ug/L (ppb) | 10 | 93 | 112 | 43-149 | 19 |
| Bromomethane | ug/L (ppb) | 10 | 87 | 119 | 28-182 | 31 vo |
| Chloroethane | ug/L (ppb) | 10 | 99 | 119 | 59-157 | 18 |
| Trichlorofluoromethane | ug/L (ppb) | 10 | 81 | 111 | 59-141 | 31 vo |
| Acetone | ug/L (ppb) | 50 | 48 | 58 | 20-139 | 19 |
| 1,1-Dichloroethene | ug/L (ppb) | 10 | 88 | 104 | 67-138 | 17 |
| Hexane | ug/L (ppb) | 10 | 89 | 103 | 50-161 | 15 |
| Methylene chloride | ug/L (ppb) | 10 | 81 | 80 | 29-192 | 1 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 90 | 106 | 70-130 | 16 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 10 | 92 | 108 | 70-130 | 16 |
| 1,1-Dichloroethane | ug/L (ppb) | 10 | 93 | 109 | 70-130 | 16 |
| 2,2-Dichloropropane | ug/L (ppb) | 10 | 103 | 123 | 71-148 | 18 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 10 | 93 | 110 | 70-130 | 17 |
| Chloroform | ug/L (ppb) | 10 | 85 | 104 | 70-130 | 20 |
| 2-Butanone (MEK) | ug/L (ppb) | 50 | 67 | 78 | 50-157 | 15 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 93 | 108 | 70-130 | 15 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 10 | 88 | 105 | 70-130 | 18 |
| 1,1-Dichloropropene | ug/L (ppb) | 10 | 89 | 108 | 70-130 | 19 |
| Carbon tetrachloride | ug/L (ppb) | 10 | 88 | 103 | 70-130 | 16 |
| Benzene | ug/L (ppb) | 10 | 93 | 110 | 70-130 | 17 |
| Trichloroethene | ug/L (ppb) | 10 | 89 | 105 | 70-130 | 16 |
| 1,2-Dichloropropane | ug/L (ppb) | 10 | 87 | 100 | 70-130 | 14 |
| Bromodichloromethane | ug/L (ppb) | 10 | 86 | 102 | 70-130 | 17 |
| Dibromomethane | ug/L (ppb) | 10 | 87 | 104 | 70-130 | 18 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 50 | 80 | 93 | 70-130 | 15 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 10 | 87 | 100 | 70-130 | 14 |
| Toluene | ug/L (ppb) | 10 | 101 | 109 | 70-130 | 8 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 10 | 93 | 99 | 70-130 | 6 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 10 | 102 | 109 | 70-130 | 7 |
| 2-Hexanone | ug/L (ppb) | 50 | 83 | 88 | 66-132 | 6 |
| 1,3-Dichloropropene | ug/L (ppb) | 10 | 98 | 106 | 70-130 | 8 |
| Tetrachloroethene | ug/L (ppb) | 10 | 99 | 107 | 70-130 | 8 |
| Dibromochloromethane | ug/L (ppb) | 10 | 97 | 104 | 63-142 | 7 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 98 | 106 | 70-130 | 8 |
| Chlorobenzene | ug/L (ppb) | 10 | 97 | 105 | 70-130 | 8 |
| Ethylbenzene | ug/L (ppb) | 10 | 100 | 109 | 70-130 | 9 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 10 | 94 | 105 | 70-130 | 11 |
| m,p-Xylene | ug/L (ppb) | 20 | 99 | 108 | 70-130 | 9 |
| o-Xylene | ug/L (ppb) | 10 | 99 | 108 | 70-130 | 9 |
| Styrene | ug/L (ppb) | 10 | 92 | 101 | 70-130 | 9 |
| Isopropylbenzene | ug/L (ppb) | 10 | 97 | 107 | 70-130 | 10 |
| Bromoform | ug/L (ppb) | 10 | 89 | 95 | 50-157 | 7 |
| n-Propylbenzene | ug/L (ppb) | 10 | 99 | 108 | 70-130 | 9 |
| Bromobenzene | ug/L (ppb) | 10 | 96 | 104 | 70-130 | 8 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 96 | 105 | 52-150 | 9 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 10 | 102 | 111 | 75-140 | 8 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 10 | 97 | 105 | 40-153 | 8 |
| 2-Chlorotoluene | ug/L (ppb) | 10 | 99 | 106 | 70-130 | 7 |
| 4-Chlorotoluene | ug/L (ppb) | 10 | 97 | 103 | 70-130 | 6 |
| tert-Butylbenzene | ug/L (ppb) | 10 | 95 | 107 | 70-130 | 12 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 95 | 104 | 70-130 | 9 |
| sec-Butylbenzene | ug/L (ppb) | 10 | 98 | 106 | 70-130 | 8 |
| p-Isopropyltoluene | ug/L (ppb) | 10 | 98 | 106 | 70-130 | 8 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 10 | 97 | 104 | 70-130 | 7 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 10 | 95 | 103 | 70-130 | 8 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 10 | 96 | 106 | 70-130 | 10 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 10 | 91 | 97 | 70-130 | 6 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 10 | 91 | 99 | 70-130 | 8 |
| Hexachlorobutadiene | ug/L (ppb) | 10 | 97 | 106 | 70-130 | 9 |
| Naphthalene | ug/L (ppb) | 10 | 86 | 92 | 61-133 | 7 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 10 | 88 | 94 | 69-143 | 7 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | ug/L (ppb) | 10 | 70 | 65 | 58-93 | 7 |
| 2-Methylnaphthalene | ug/L (ppb) | 10 | 72 | 69 | 63-97 | 4 |
| 1-Methylnaphthalene | ug/L (ppb) | 10 | 72 | 70 | 62-99 | 3 |
| Acenaphthylene | ug/L (ppb) | 10 | 83 | 83 | 68-111 | 0 |
| Acenaphthene | ug/L (ppb) | 10 | 83 | 83 | 67-104 | 0 |
| Fluorene | ug/L (ppb) | 10 | 90 | 88 | 70-130 | 2 |
| Phenanthrene | ug/L (ppb) | 10 | 90 | 90 | 70-130 | 0 |
| Anthracene | ug/L (ppb) | 10 | 89 | 91 | 70-130 | 2 |
| Fluoranthene | ug/L (ppb) | 10 | 88 | 89 | 70-130 | 1 |
| Pyrene | ug/L (ppb) | 10 | 87 | 85 | 70-130 | 2 |
| Benz(a)anthracene | ug/L (ppb) | 10 | 88 | 89 | 70-130 | 1 |
| Chrysene | ug/L (ppb) | 10 | 92 | 93 | 70-130 | 1 |
| Benzo(a)pyrene | ug/L (ppb) | 10 | 92 | 94 | 70-130 | 2 |
| Benzo(b)fluoranthene | ug/L (ppb) | 10 | 97 | 96 | 70-130 | 1 |
| Benzo(k)fluoranthene | ug/L (ppb) | 10 | 93 | 93 | 70-130 | 0 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 10 | 88 | 98 | 70-130 | 11 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 10 | 92 | 95 | 70-130 | 3 |
| Benzo(g,h,i)perylene | ug/L (ppb) | 10 | 83 | 87 | 68-131 | 5 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 411132-05 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 22.8 | 107 b | 124 b | 75-125 | 15 b |
| Lead | ug/L (ppb) | 10 | 3.05 | 94 b | 98 b | 75-125 | 4 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 99 | 80-120 |
| Lead | ug/L (ppb) | 10 | 97 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 411132-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|--------------------|----------------|------------------|---------------------------|----------------------------|------------------------|-------------------|
| Arsenic | ug/L (ppb) | 10 | 2.53 | 96 b | 94 b | 75-125 | 2 b |
| Lead | ug/L (ppb) | 10 | <1 | 96 | 95 | 75-125 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| Arsenic | ug/L (ppb) | 10 | 93 | 80-120 |
| Lead | ug/L (ppb) | 10 | 95 | 80-120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Whidbey Marine PO 0204475-001, F&BI 411132

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS BY METHOD 2540D**

Laboratory Code: 411153-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|---------|--------------------|------------------|---------------------|-------------------|
| TSS | mg/L (ppm) | 42 | 43 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|--------------------|----------------|----------------------------|------------------------|
| TSS | mg/L (ppm) | 20 | 96 | 35-146 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

11/08/24

F4/K4/VW2

411132

Report To Heather Good

Company HFA

Address _____

City, State, ZIP _____

Phone _____ Email Hgood@haleyadvis.com

Page # 1 of 1

| | | |
|---------------------------------------|--|------------|
| SAMPLES (signature) <u>HFA</u> | | PO # _____ |
| PROJECT NAME <u>Whidbey Marine</u> | | INVOICE TO |
| REMARKS | | |
| Project specific RLS? - Yes / No | | |

| | |
|---|--|
| TURNAROUND TIME | |
| <input checked="" type="checkbox"/> Standard turnaround | |
| <input type="checkbox"/> RUSH | |
| Rush charges authorized by: _____ | |
| SAMPLE DISPOSAL | |
| <input type="checkbox"/> Archive samples | |
| <input type="checkbox"/> Other _____ | |
| Default: Dispose after 30 days | |

| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | | |
|-------------|--------|--------------|--------------|-------------|-----------|--------------------|----------|---|-----------------------------------|---------------|---------------|--------------------------------------|----------------|----------------------------------|-----|-----|-------|---|
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of Jars | NWTPH-Dx | NWTPH-Gx | Antimony & Arsenic DTEX EPA 8021 | Ammonia NWTPH-HCID | VOCs EPA 8260 | PAHs EPA 8270 | Sulfide PCBs EPA 8062 | EDB, EDC, MTBE | Total + dissolved lead & Arsenic | TSS | MEE | Notes | |
| MW-200-4024 | 01A-K | 11/7/24 | 1335 | W | 11 | X | X | | | X | X | | X | X | X | | | TOC + Diss Mn per table from NW 1/10/14 me |
| MW-220-4024 | 02 ↓ | | 1220 | | 11 | X | X | | | X | X | | X | X | X | | | Nitrate short hold time |
| MW-230-4024 | 03A-Q | | 1105 | | 17 | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW-90-4024 | 04 ↓ | | 0910 | | 17 | X | X | X | X | X | X | X | X | X | X | X | X | |
| FD-01-4024 | 05 ↓ | | 1000 | | 17 | X | X | X | X | X | X | X | X | X | X | X | X | |
| Trip Blank | 06A-B | - | - | Water | 2 | | | | | | | | | | | | | Added at lab 11/11/08 |
| | | | | | | | | | | | | | | | | | | Dissolved mang. & iron for AD, 230, 8FD |
| | | | | | | | | | | | | | | | | | | |
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| SIGNATURE | | PRINT NAME | | COMPANY | | DATE | | TIME | |
|-----------------------------|--|----------------------|--|------------|--|-----------------|--|--------------|--|
| Relinquished by: <u>HFA</u> | | <u>Each Stephens</u> | | <u>HFA</u> | | <u>11/8/24</u> | | <u>0945</u> | |
| Received by: <u>HFA</u> | | <u>Anh Phan</u> | | <u>FBI</u> | | <u>11/08/24</u> | | <u>09:45</u> | |
| Relinquished by: _____ | | | | | | | | | |
| Received by: _____ | | | | | | | | | |

Friedman & Bruya, Inc.
5500 4th Ave S.
Seattle WA 98108
(206) 285-8282
office@friedmanandbruya.com

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 41132 CLIENT HNA INITIALS/ AP
DATE: 11/08/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature

2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?

☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO

*or other representative documents, letters, and/or shipping memos

Initials/ AP
Date: 11/08/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

| | | |
|--------------------|---|---|
| Sample ID's | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____ | <input type="checkbox"/> Not on COC/label |
| Date Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____ | <input type="checkbox"/> Not on COC/label |
| Time Sampled | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____ | <input type="checkbox"/> Not on COC/label |
| # of Containers | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>Added Trip Blank at lab.</u> | |
| Relinquished | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____ | |
| Requested analysis | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> On Hold _____ | |

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____



3600 Fremont Ave N

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 411122,

Work Order Number: 2411170

November 15, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 11/8/2024 for the analyses presented in the following report.

Ammonia by SM 4500 NH3G

Dissolved Gases by RSK-175

Ion Chromatography by EPA 300.0

Total Alkalinity by EPA 310.2

Total Organic Carbon by SM 5310C

Total Sulfide by SM 4500-S2-D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



www.fremontanalytical.com



Date: 11/15/2024

CLIENT: Friedman & Bruya
Project: 411122
Work Order: 2411170

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2411170-001 | MW-23D-4Q24 | 11/05/2024 11:05 AM | 11/08/2024 2:45 PM |
| 2411170-002 | MW-9D-4Q24 | 11/05/2024 9:10 AM | 11/08/2024 2:45 PM |
| 2411170-003 | FD-01-4Q24 | 11/05/2024 10:00 AM | 11/08/2024 2:45 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Friedman & Bruya

Project: 411122

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 411122

Lab ID: 2411170-001

Collection Date: 11/5/2024 11:05:00 AM

Client Sample ID: MW-23D-4Q24

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Dissolved Gases by RSK-175

Batch ID: R95662 Analyst: CO

| | | | | | | |
|---------|-------|---------|--|------|---|-----------------------|
| Methane | 0.139 | 0.00500 | | mg/L | 1 | 11/12/2024 2:45:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:45:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:45:00 PM |

Ion Chromatography by EPA 300.0

Batch ID: 45790 Analyst: OP

| | | | | | | |
|----------------|------|-------|----|------|----|-----------------------|
| Chloride | 27.5 | 2.00 | D | mg/L | 10 | 11/11/2024 5:37:00 PM |
| Nitrite (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 10:20:00 PM |
| Nitrate (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 10:20:00 PM |
| Sulfate | ND | 1.00 | | mg/L | 1 | 11/11/2024 6:46:00 PM |

Total Organic Carbon by SM 5310C

Batch ID: R95639 Analyst: OP

| | | | | | | |
|----------------------|------|-------|--|------|---|-----------------------|
| Total Organic Carbon | 9.93 | 0.700 | | mg/L | 1 | 11/11/2024 9:45:00 AM |
|----------------------|------|-------|--|------|---|-----------------------|

Total Alkalinity by EPA 310.2

Batch ID: R95619 Analyst: NR

| | | | | | | |
|---|-----|------|---|------|----|-----------------------|
| Alkalinity, Total (As CaCO ₃) | 262 | 25.0 | D | mg/L | 10 | 11/11/2024 2:43:00 PM |
|---|-----|------|---|------|----|-----------------------|

Ammonia by SM 4500 NH3G

Batch ID: 45830 Analyst: OP

| | | | | | | |
|-------------------|----|-------|--|------|---|------------------------|
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/15/2024 11:10:00 AM |
|-------------------|----|-------|--|------|---|------------------------|

Total Sulfide by SM 4500-S2-D

Batch ID: R95602 Analyst: BB

| | | | | | | |
|---------|----|--------|--|------|---|-----------------------|
| Sulfide | ND | 0.0500 | | mg/L | 1 | 11/11/2024 8:49:51 AM |
|---------|----|--------|--|------|---|-----------------------|

CLIENT: Friedman & Bruya
Project: 411122

Lab ID: 2411170-002

Client Sample ID: MW-9D-4Q24

Collection Date: 11/5/2024 9:10:00 AM

Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|------------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R95662 | | Analyst: CO |
| Methane | 0.0110 | 0.00500 | | mg/L | 1 | 11/12/2024 2:47:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:47:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:47:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 45790 | | Analyst: OP |
| Chloride | 27.9 | 2.00 | D | mg/L | 10 | 11/11/2024 6:00:00 PM |
| Nitrite (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 10:43:00 PM |
| Nitrate (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 10:43:00 PM |
| Sulfate | 1.97 | 1.00 | | mg/L | 1 | 11/11/2024 7:10:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R95639 | | Analyst: OP |
| Total Organic Carbon | 8.25 | 0.700 | | mg/L | 1 | 11/11/2024 10:14:00 AM |
| <u>Total Alkalinity by EPA 310.2</u> | | | | Batch ID: R95619 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 136 | 25.0 | D | mg/L | 10 | 11/11/2024 2:45:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 45830 | | Analyst: OP |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/15/2024 11:15:00 AM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R95602 | | Analyst: BB |
| Sulfide | 0.0706 | 0.0500 | | mg/L | 1 | 11/11/2024 8:49:51 AM |

CLIENT: Friedman & Bruya
Project: 411122

Lab ID: 2411170-003
Client Sample ID: FD-01-4Q24

Collection Date: 11/5/2024 10:00:00 AM
Matrix: Water

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|---------|------|------------------|----|------------------------|
| <u>Dissolved Gases by RSK-175</u> | | | | Batch ID: R95662 | | Analyst: CO |
| Methane | 0.0120 | 0.00500 | | mg/L | 1 | 11/12/2024 2:49:00 PM |
| Ethene | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:49:00 PM |
| Ethane | ND | 0.0100 | | mg/L | 1 | 11/12/2024 2:49:00 PM |
| <u>Ion Chromatography by EPA 300.0</u> | | | | Batch ID: 45790 | | Analyst: OP |
| Chloride | 27.4 | 2.00 | D | mg/L | 10 | 11/11/2024 6:23:00 PM |
| Nitrite (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 11:06:00 PM |
| Nitrate (as N) | ND | 0.400 | DH | mg/L | 2 | 11/8/2024 11:06:00 PM |
| Sulfate | 1.27 | 1.00 | | mg/L | 1 | 11/11/2024 7:33:00 PM |
| <u>Total Organic Carbon by SM 5310C</u> | | | | Batch ID: R95639 | | Analyst: OP |
| Total Organic Carbon | 9.25 | 0.700 | | mg/L | 1 | 11/11/2024 10:42:00 AM |
| <u>Total Alkalinity by EPA 310.2</u> | | | | Batch ID: R95619 | | Analyst: NR |
| Alkalinity, Total (As CaCO ₃) | 119 | 25.0 | D | mg/L | 10 | 11/11/2024 2:48:00 PM |
| <u>Ammonia by SM 4500 NH3G</u> | | | | Batch ID: 45830 | | Analyst: OP |
| Nitrogen, Ammonia | ND | 0.150 | | mg/L | 1 | 11/15/2024 11:20:00 AM |
| <u>Total Sulfide by SM 4500-S2-D</u> | | | | Batch ID: R95602 | | Analyst: BB |
| Sulfide | 0.0532 | 0.0500 | | mg/L | 1 | 11/11/2024 8:49:51 AM |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

| | | | | | | | | | | | | |
|----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: MB-95619 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: MBLKW | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | | SeqNo: 1996046 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|
| Alkalinity, Total (As CaCO3) | ND | 2.50 | | | | | | | | | |
|------------------------------|----|------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-95619 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: LCSW | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996047 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|
| Alkalinity, Total (As CaCO3) | 26.2 | 2.50 | 25.00 | 0 | 105 | 83.8 | 121 | | | | |
|------------------------------|------|------|-------|---|-----|------|-----|--|--|--|--|

| | | | | | | | | | | | | |
|----------------------------|--------|------------------|-----------|-------------|---------------------------|----------|-----------------------|-------------|------|----------------|------|--|
| Sample ID: 2411094-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: BATCH | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | | | SeqNo: 1996049 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|
| Alkalinity, Total (As CaCO3) | 44.9 | 2.50 | | | | | | 46.00 | 2.42 | 20 | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|--|

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411119-001ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95619 | | |
| Client ID: BATCH | | Batch ID: R95619 | | | Analysis Date: 11/11/2024 | | | SeqNo: 1996059 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|
| Alkalinity, Total (As CaCO3) | 67.7 | 2.50 | | | | | | 68.60 | 1.32 | 20 | E |
|------------------------------|------|------|--|--|--|--|--|-------|------|----|---|

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Ammonia by SM 4500 NH3G

| | | | | | | | | | | | | |
|----------------------------|--------|------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: MB-45830 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95745 | | |
| Client ID: MBLKW | | Batch ID: 45830 | | | Analysis Date: 11/15/2024 | | | | | SeqNo: 1997863 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150

| | | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|-----------------------|---------------------|------|--|
| Sample ID: LCS-45830 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95745 | | |
| Client ID: LCSW | | Batch ID: 45830 | | | Analysis Date: 11/15/2024 | | | | SeqNo: 1997864 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia 0.439 0.150 0.5000 0 87.8 81.7 122

| | | | | | | | | | | | | |
|----------------------------|--------|-----------------|-----------|-------------|---------------------------|----------|-----------------------|-------------|----------------|--------------|------|--|
| Sample ID: 2411229-003DDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95745 | | |
| Client ID: BATCH | | Batch ID: 45830 | | | Analysis Date: 11/15/2024 | | | | SeqNo: 1997866 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

Nitrogen, Ammonia ND 0.150 0 30

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411229-003DMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95745 | | |
| Client ID: BATCH | | Batch ID: 45830 | | | | | Analysis Date: 11/15/2024 | | | SeqNo: 1997868 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411229-003DMSD | | SampType: MSD | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95745 | | |
| Client ID: BATCH | | Batch ID: 45830 | | | | | Analysis Date: 11/15/2024 | | | SeqNo: 1997869 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrogen, Ammonia ND 0.150 0.5000 0 0 15.8 138 0 30 S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|-----------|-------------|-----------------------------|-----------------------|-----------|-------------|---------------------|----------|------|
| Sample ID: MB-45790 | SampType: MBLK | Units: mg/L | | | Prep Date: 11/7/2024 | | | | RunNo: 95604 | | |
| Client ID: MBLKW | Batch ID: 45790 | Analysis Date: 11/7/2024 | | | | SeqNo: 1995162 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | |
|----------------|----|-------|
| Chloride | ND | 0.200 |
| Nitrite (as N) | ND | 0.200 |
| Nitrate (as N) | ND | 0.200 |
| Sulfate | ND | 1.00 |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411102-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995169 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--|--|--|--|--|--------|-------|----|---|
| Chloride | 7.67 | 0.200 | | | | | | 7.706 | 0.468 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | H |
| Nitrate (as N) | 0.578 | 0.200 | | | | | | 0.5830 | 0.861 | 20 | H |
| Sulfate | 7.82 | 1.00 | | | | | | 7.770 | 0.680 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: 2411102-001BMS | | SampType: MS | | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995170 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|------|----|-----|--|--|--|---|
| Chloride | 8.31 | 0.200 | 0.7500 | 7.706 | 80.8 | 80 | 120 | | | | E |
| Nitrite (as N) | 0.749 | 0.200 | 0.7500 | 0 | 99.9 | 80 | 120 | | | | H |
| Nitrate (as N) | 1.38 | 0.200 | 0.7500 | 0.5830 | 106 | 80 | 120 | | | | H |
| Sulfate | 11.5 | 1.00 | 3.750 | 7.770 | 99.4 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2411102-001BMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | Analysis Date: 11/8/2024 | | | | | SeqNo: 1995171 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|----------------|-------|-------|--------|--------|------|----|-----|--------|-------|----|---|
| Chloride | 8.33 | 0.200 | 0.7500 | 7.706 | 83.7 | 80 | 120 | 8.312 | 0.264 | 20 | E |
| Nitrite (as N) | 0.753 | 0.200 | 0.7500 | 0 | 100 | 80 | 120 | 0.7490 | 0.533 | 20 | H |
| Nitrate (as N) | 1.39 | 0.200 | 0.7500 | 0.5830 | 107 | 80 | 120 | 1.377 | 0.796 | 20 | H |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2411102-001BMSD | SampType: MSD | Units: mg/L | | | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | |
| Client ID: BATCH | Batch ID: 45790 | | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995171 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfate | 11.6 | 1.00 | 3.750 | 7.770 | 101 | 80 | 120 | 11.50 | 0.581 | 20 | |

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------|-----------|-------------|---------------------------------|----------|-----------|-----------------------|--------|----------|------|
| Sample ID: 2411130-001ADUP | SampType: DUP | Units: mg/L | | | Prep Date: 11/7/2024 | | | RunNo: 95604 | | | |
| Client ID: BATCH | Batch ID: 45790 | | | | Analysis Date: 11/8/2024 | | | SeqNo: 1995205 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 14.9 | 0.200 | | | | | | 14.93 | 0.0536 | 20 | E |
| Nitrite (as N) | ND | 0.200 | | | | | | 0 | | 20 | |
| Nitrate (as N) | 3.60 | 0.200 | | | | | | 3.599 | 0.0556 | 20 | |
| Sulfate | 16.3 | 1.00 | | | | | | 16.31 | 0.245 | 20 | |

| | | | | | | | | | | | |
|----------------------------------|--------|------------------------|-----------|-------------|---------------------------------|----------|-----------------------------|-------------|-----------------------|----------|------|
| Sample ID: 2411130-001AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 11/7/2024 | | RunNo: 95604 | | |
| Client ID: BATCH | | Batch ID: 45790 | | | Analysis Date: 11/8/2024 | | | | SeqNo: 1995206 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 15.4 | 0.200 | 0.7500 | 14.93 | 64.9 | 80 | 120 | | | | ES |
| Nitrite (as N) | 0.757 | 0.200 | 0.7500 | 0 | 101 | 80 | 120 | | | | |
| Nitrate (as N) | 4.35 | 0.200 | 0.7500 | 3.599 | 99.9 | 80 | 120 | | | | |
| Sulfate | 20.1 | 1.00 | 3.750 | 16.31 | 101 | 80 | 120 | | | | |

NOTES:

S - Outlying spike recoveries were associated with this sample.

| | | | | | | | | | | | |
|-----------------------------|--------|------------------------|-----------|--------------------|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Sample ID: LCS-45790 | | SampType: LCS | | Units: mg/L | | Prep Date: 11/8/2024 | | RunNo: 95604 | | | |
| Client ID: LCSW | | Batch ID: 45790 | | | | Analysis Date: 11/8/2024 | | SeqNo: 1995182 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride | 0.740 | 0.200 | 0.7500 | 0 | 98.7 | 90 | 110 | | | | |
| Nitrite (as N) | 0.719 | 0.200 | 0.7500 | 0 | 95.9 | 90 | 110 | | | | |
| Nitrate (as N) | 0.738 | 0.200 | 0.7500 | 0 | 98.4 | 90 | 110 | | | | |
| Sulfate | 3.67 | 1.00 | 3.750 | 0 | 97.8 | 90 | 110 | | | | |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Total Sulfide by SM 4500-S2-D

| | | | | | | | | | | | | |
|-----------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: MB-R95602 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95602 | | |
| Client ID: MBLKW | | Batch ID: R95602 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995109 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | ND | 0.0500 | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: LCS-R95602 | | SampType: LCS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95602 | | |
| Client ID: LCSW | | Batch ID: R95602 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995110 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.194 | 0.0500 | 0.2000 | 0 | 96.8 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411161-001ADUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95602 | | |
| Client ID: BATCH | | Batch ID: R95602 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995112 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.0545 | 0.0500 | | | | | | 0.05200 | 4.67 | 20 | |

| | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411161-001AMS | | SampType: MS | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95602 | | |
| Client ID: BATCH | | Batch ID: R95602 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995113 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.215 | 0.0500 | 0.2000 | 0.05200 | 81.4 | 80 | 120 | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------|--------|-----------|--------------------|------|------------------------------|----------------------------------|-------------|---------------------|-----------------------|------|
| Sample ID: 2411161-001AMSD | | SampType: MSD | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95602 | | |
| Client ID: BATCH | | Batch ID: R95602 | | | | | | Analysis Date: 11/11/2024 | | | SeqNo: 1995114 | |
| Analyte | | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sulfide | | 0.217 | 0.0500 | 0.2000 | 0.05200 | 82.6 | 80 | 120 | 0.2147 | 1.15 | 20 | |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: MB-R95639 | SampType: MBLK | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: MBLKW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995924 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | ND | 0.700 | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: LCS-R95639 | SampType: LCS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: LCSW | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995925 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 26.2 | 0.700 | 25.00 | 0 | 105 | 87.6 | 109 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BDUP | SampType: DUP | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995927 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 1.69 | 0.700 | | | | | | 1.666 | 1.19 | 20 | | |

| | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMS | SampType: MS | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995928 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.0 | 0.700 | 25.00 | 1.666 | 101 | 73.1 | 113 | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------------|--------------------|-----------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|--|
| Sample ID: 2411119-001BMSD | SampType: MSD | Units: mg/L | | Prep Date: 11/11/2024 | RunNo: 95639 | | | | | | | |
| Client ID: BATCH | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | SeqNo: 1995929 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 27.3 | 0.700 | 25.00 | 1.666 | 102 | 73.1 | 113 | 26.97 | 1.09 | 30 | | |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT
Total Organic Carbon by SM 5310C

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2411179-001BDUP | | SampType: DUP | | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95639 | | |
| Client ID: BATCH | | Batch ID: R95639 | | | Analysis Date: 11/11/2024 | | | | | SeqNo: 1995917 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Total Organic Carbon | 4.60 | 0.700 | | | | | | 4.801 | 4.38 | 20 | | |

| | | | | | | | | | | | |
|----------------------------------|--------|-------------------------|-----------|----------------------------------|------|------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: 2411179-001BMS | | SampType: MS | | Units: mg/L | | Prep Date: 11/11/2024 | | | RunNo: 95639 | | |
| Client ID: BATCH | | Batch ID: R95639 | | Analysis Date: 11/11/2024 | | | | | SeqNo: 1995918 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Carbon | 29.7 | 0.700 | 25.00 | 4.801 | 99.6 | 73.1 | 113 | | | | |

Work Order: 2411170
CLIENT: Friedman & Bruya
Project: 411122

QC SUMMARY REPORT

Dissolved Gases by RSK-175

| | | | | | | | | | | | | |
|------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: LCS-R95662 | | SampType: LCS | | | Units: ppmv | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: LCSW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | SeqNo: 1996436 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|-------|---------|-------|---|-----|------|-----|--|--|--|--|
| Methane | 1,080 | 0.00500 | 1,000 | 0 | 108 | 73.6 | 124 | | | | |
| Ethene | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.3 | 122 | | | | |
| Ethane | 1,020 | 0.0100 | 1,000 | 0 | 102 | 76.1 | 123 | | | | |

| | | | | | | | | | | | | |
|-----------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-----------------------|------|---------------------|------|--|
| Sample ID: MB-R95662 | | SampType: MBLK | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: MBLKW | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | SeqNo: 1996435 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|--|--|--|--|
| Methane | ND | 0.00500 | | | | | | | | | |
| Ethene | ND | 0.0100 | | | | | | | | | |
| Ethane | ND | 0.0100 | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|--------|-------------------------|-----------|-------------|----------------------------------|----------|------------------------------|-------------|------|-----------------------|------|--|
| Sample ID: 2411119-001DREP | | SampType: REP | | | Units: mg/L | | Prep Date: 11/12/2024 | | | RunNo: 95662 | | |
| Client ID: BATCH | | Batch ID: R95662 | | | Analysis Date: 11/12/2024 | | | | | SeqNo: 1996421 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |

| | | | | | | | | | | | |
|---------|----|---------|--|--|--|--|--|---|--|----|--|
| Methane | ND | 0.00500 | | | | | | 0 | | 30 | |
| Ethene | ND | 0.0100 | | | | | | 0 | | 30 | |
| Ethane | ND | 0.0100 | | | | | | 0 | | 30 | |

Client Name: FB

Work Order Number: 2411170

Logged by: Morgan Wilson

Date Received: 11/8/2024 2:45:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☐ No ☒

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐

eMail

☐

Phone

☐

Fax

☐

In Person

Regarding:

Client Instructions:

17. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 6.0 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Table 749-1

Simplified Terrestrial Ecological Evaluation-Exposure Analysis Procedure

| Estimate the area of contiguous (connected) undeveloped land on the site or within 500 feet of any area of the site to the nearest 1/2 acre (1/4 acre if the area is less than 0.5 acre). | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------|--------|--------------|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|----|-----|----|-------------|----|--|
| 1) From the table below, find the number of points corresponding to the area and enter this number in the field to the right. | | 9 | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Area (acres)</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>0.25 or less</td> <td>4</td> </tr> <tr> <td>0.5</td> <td>5</td> </tr> <tr> <td>1.0</td> <td>6</td> </tr> <tr> <td>1.5</td> <td>7</td> </tr> <tr> <td>2.0</td> <td>8</td> </tr> <tr> <td>2.5</td> <td>9</td> </tr> <tr> <td>3.0</td> <td>10</td> </tr> <tr> <td>3.5</td> <td>11</td> </tr> <tr> <td>4.0 or more</td> <td>12</td> </tr> </tbody> </table> | Area (acres) | Points | 0.25 or less | 4 | 0.5 | 5 | 1.0 | 6 | 1.5 | 7 | 2.0 | 8 | 2.5 | 9 | 3.0 | 10 | 3.5 | 11 | 4.0 or more | 12 | |
| Area (acres) | Points | | | | | | | | | | | | | | | | | | | | | |
| 0.25 or less | 4 | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 5 | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 6 | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 7 | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 8 | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | 9 | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 10 | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | 11 | | | | | | | | | | | | | | | | | | | | | |
| 4.0 or more | 12 | | | | | | | | | | | | | | | | | | | | | |
| 2) Is this an industrial or commercial property? If yes, enter a score of 3. If no, enter a score of 1 | | 3 | | | | | | | | | | | | | | | | | | | | |
| 3) ^a Enter a score in the box to the right for the habitat quality of the site, using the following rating system ^b . High=1, Intermediate=2, Low=3 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 4) Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2. ^c | | 1 | | | | | | | | | | | | | | | | | | | | |
| 5) Are there any of the following soil contaminants present: Chlorinated dioxins/furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4. | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6) Add the numbers in the boxes on lines 2-5 and enter this number in the box to the right. If this number is larger than the number in the box on line 1, the simplified evaluation may be ended. | | 9 | | | | | | | | | | | | | | | | | | | | |

Notes for Table 749-1

^a It is expected that this habitat evaluation will be undertaken by an experienced field biologist. If this is not the case, enter a conservative score of (1) for questions 3 and 4.

^b **Habitat rating system.** Rate the quality of the habitat as high, intermediate or low based on your professional judgment as a field biologist. The following are suggested factors to consider in making this evaluation:

Low: Early [successional](#) vegetative stands; vegetation predominantly noxious, nonnative, exotic plant species or weeds. Areas severely disturbed by human activity, including intensively cultivated croplands. Areas isolated from other habitat used by wildlife.

High: Area is ecologically significant for one or more of the following reasons: Late-[successional](#) native plant communities present; relatively high species diversity; used by an uncommon or rare species; [priority habitat](#) (as defined by the Washington Department of fish and Wildlife); part of a larger area of habitat where size or fragmentation may be important for the retention of some species.

Intermediate: Area does not rate as either high or low.

^c Indicate "yes" if the area attracts wildlife or is likely to do so. Examples: Birds frequently visit the area to feed; evidence of high use b mammals (tracks, scat, etc.); habitat "island" in an industrial area; unusual features of an area that make it important for feeding animals; heavy use during seasonal migrations.

[\[Area Calculation Aid\]](#) [\[Aerial Photo with Area Designations\]](#) [TEE Table 749-1] [\[Index of Tables\]](#)

[\[Exclusions Main\]](#) [\[TEE Definitions\]](#) [\[Simplified or Site-Specific?\]](#) [\[Simplified Ecological Evaluation\]](#) [\[Site-Specific Ecological Evaluation\]](#) [\[WAC 173-340-7493\]](#)

[\[TEE Home\]](#)

APPENDIX E
Site-Specific MTCA Method B TPH Cleanup Levels

A2.2 Worksheet for Calculating Soil Cleanup Level for the Protection of Groundwater Quality: Leaching Pathway**WAC 173-340-740 and 747**

| Date: 01/26/24 Site Name: Whidbey Island Sample Name: HA-1-S6 | | | | Site-Specific Hydrogeological Properties previously entered: | | | |
|---|--|--|--|--|--------|-------|-------|
| | | | | Item | Symbol | Value | Units |
| Chemical of Concern or EC Group Measured Soil Conc @dry basis mg/kg | | | | Soil Leaching Pathway Results Soil Conc being tested (1) mg/kg Predicted Conc @Well µg/L | | | |
| | | | | Total soil porosity: n 0.43 unitless Volumetric water content: Q_w 0.3 unitless Volumetric air content: Q_a 0.13 unitless Soil bulk density measured: ρ_b 1.5 kg/L Fraction Organic Carbon: f_{oc} 0.001 unitless Dilution Factor: DF 1 unitless | | | |
| | | | | Target TPH Groundwater Concentration Target Groundwater TPH Conc, µg/L: 500 | | | |
| | | | | Calculate Soil Leaching Protective Condition for the Measured Sample Concentration | | | |
| | | | | Calculate a Soil Concentration that is Protective of the Target TPH Groundwater Concentration Click the button below to run Soil Leaching calculations. Note: a target TPH Groundwater Conc must be entered in Worksheet A1_Soil Data Entry to run the soil leaching calculation. <div>Calculate Soil Leaching Cleanup Level</div> | | | |
| Petroleum EC Fraction | | | | Model Results | | | |
| AL_EC >5-6 8.5 4.70E-02 1.19E+01 AL_EC >6-8 20 1.11E-01 1.23E+01 AL_EC >8-10 8.5 4.70E-02 9.72E-01 AL_EC >10-12 43.8 2.42E-01 5.82E-01 AL_EC >12-16 5.6 3.10E-02 2.06E-03 AL_EC >16-21 5.6 3.10E-02 1.81E-06 AL_EC >21-34 5.6 3.10E-02 3.18E-11 AR_EC >8-10 98.82 5.46E-01 2.89E+02 AR_EC >10-12 57.61 3.18E-01 1.09E+02 AR_EC >12-16 32.1 1.77E-01 2.88E+01 AR_EC >16-21 5.6 3.10E-02 1.05E+00 AR_EC >21-34 5.6 3.10E-02 2.13E-02 Benzene 0.015 8.29E-05 3.01E-01 Toluene 0.98 5.42E-03 1.51E+01 Ethylbenzene 0.32 1.77E-03 4.01E+00 Total Xylenes 1.86 1.03E-02 2.20E+01 Naphthalene 0.29 1.60E-03 1.04E+00 1-Methyl Naphthalene 0.6 3.32E-03 1.13E+00 2-Methyl Naphthalene 1.2 6.63E-03 2.30E+00 n-Hexane 0 0.00E+00 0.00E+00 MTBE 0 0.00E+00 0.00E+00 Ethylene Dibromide (EDB) 0 0.00E+00 0.00E+00 1,2 Dichloroethane (EDC) 0 0.00E+00 0.00E+00 | | | | Soil Leaching Criterion: Protection of Target TPH Groundwater Concentration Protective TPH Soil Concentration, mg/kg = 1.67 @ 2 sig figures 1.7 TPH GW Concentration, ug/L = 5.00E+02 @ 2 sig figures 500 Soil Leaching Pass or Fail? Fail | | | |
| Additional Model Details Type of model used for computation: 3-Phase Model Computation completed? Yes! | | | | | | | |
| Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene | | | | 100% NAPL, mg/kg 73386.8 Mass Distribution Pattern @ 4-phase in soil pore system: Total Mass distributed in Water Phase: 5.98% in Solid: 69.52% Total Mass distributed in Air Phase: 6.83% in NAPL: 17.67% | | | |
| Sum 302.595 1.67E+00 5.00E+02 | | | | | | | |
| Notes: (1) These are the soil leaching concentrations calculated by the 3- or 4-phase equilibrium partitioning models. These modelled concentrations are predicted to be protective of the target TPH groundwater concentration. (2) Individual cPAHs are not included in the soil leaching calculations to predict a total TPH concentration protective of potable groundwater. Compliance with cPAHs in soil for the protection of groundwater is determined separately using the 3-phase partitioning model - see Ecology Implementation Memo No. 10 - Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs) (April 20, 2015). See weblink below. Link to Ecology Implementation Memo 10 | | | | | | | |

A2.2 Worksheet for Calculating Soil Cleanup Level for the Protection of Groundwater Quality: Leaching Pathway

WAC 173-340-740 and 747

| Date: 01/25/24 Site Name: Whidbey Island Sample Name: HA-2-S7 | | | | Site-Specific Hydrogeological Properties previously entered: | | | | |
|---|--------------|----------|----------|---|----------------------------|----------------------|-------|--|
| | | | | Item | Symbol | Value | Units | |
| Chemical of Concern or EC Group | | | | Soil Leaching Pathway Results | | | | |
| | | | | Measured Soil Conc @dry basis | Soil Conc being tested (1) | Predicted Conc @Well | | |
| | | | | mg/kg | mg/kg | µg/L | | |
| | | | | | | | | |
| | | | | | | | | |
| Petroleum EC Fraction | | | | Target TPH Groundwater Concentration | | | | |
| AL_EC >5-6 | 114 | 4.26E+00 | 7.56E+02 | Target Groundwater TPH Conc, µg/L: 500 | | | | |
| AL_EC >6-8 | 498 | 1.86E+01 | 8.10E+02 | Calculate Soil Leaching Protective Condition for the Measured Sample Concentration | | | | |
| AL_EC >8-10 | 304 | 1.13E+01 | 4.11E+01 | <div> Calculate a Soil Concentration that is Protective of the Target TPH Groundwater Concentration <div> Click the button below to run Soil Leaching calculations. Note: a target TPH Groundwater Conc must be entered in Worksheet A1_Soil Data Entry to run the soil leaching calculation. </div> <div> Calculate Soil Leaching Cleanup Level </div> </div> | | | | |
| AL_EC >10-12 | 456 | 1.70E+01 | 4.29E+00 | | | | | |
| AL_EC >12-16 | 53.6 | 2.00E+00 | 9.38E-03 | | | | | |
| AL_EC >16-21 | 5.6 | 2.09E-01 | 1.20E-06 | | | | | |
| AL_EC >21-34 | 5.6 | 2.09E-01 | 9.92E-12 | | | | | |
| AR_EC >8-10 | 450 | 1.68E+01 | 5.12E+03 | | | | | |
| AR_EC >10-12 | 652 | 2.43E+01 | 3.56E+03 | | | | | |
| AR_EC >12-16 | 192 | 7.17E+00 | 2.79E+02 | | | | | |
| AR_EC >16-21 | 46.9 | 1.75E+00 | 5.64E+00 | | | | | |
| AR_EC >21-34 | 5.6 | 2.09E-01 | 7.24E-03 | | | | | |
| Benzene | 1.5 | 5.60E-02 | 1.81E+02 | Model Results | | | | |
| Toluene | 430 | 1.61E+01 | 3.27E+04 | Soil Leaching Criterion: Protection of Target TPH Groundwater Concentration | | | | |
| Ethylbenzene | 180 | 6.72E+00 | 7.35E+03 | Protective TPH Soil Concentration, mg/kg = 172.77 @ 2 sig figures 170 | | | | |
| Total Xylenes | 1130 | 4.22E+01 | 4.51E+04 | TPH GW Concentration, ug/L = 5.00E+02 @ 2 sig figures 500 | | | | |
| Naphthalene | 43 | 1.61E+00 | 3.45E+02 | Soil Leaching Pass or Fail? Fail | | | | |
| 1-Methyl Naphthalene | 18 | 6.72E-01 | 9.49E+01 | Additional Model Details | | | | |
| 2-Methyl Naphthalene | 42 | 1.57E+00 | 2.16E+02 | Type of model used for computation: 4-Phase Model | | | | |
| n-Hexane | 0 | 0.00E+00 | 0.00E+00 | Computation completed? Yes! | | | | |
| MTBE | 0 | 0.00E+00 | 0.00E+00 | | | | | |
| Ethylene Dibromide (EDB) | 0 | 0.00E+00 | 0.00E+00 | | | | | |
| 1,2 Dichloroethane (EDC) | 0 | 0.00E+00 | 0.00E+00 | | | | | |
| Benzo(a)anthracene | | | | 100% NAPL, mg/kg 72382.1 | | | | |
| Benzo(b)fluoranthene | | | | Mass Distribution Pattern @ 4-phase in soil pore system: | | | | |
| Benzo(k)fluoranthene | | | | Total Mass distributed in Water Phase: 1.16% in Solid: 8.69% | | | | |
| Benzo(a)pyrene | see Note (2) | | | Total Mass distributed in Air Phase: 2.75% in NAPL: 87.40% | | | | |
| Chrysene | | | | | | | | |
| Dibenz(a,h)anthracene | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | | | | | | | | |
| Sum | 4627.8 | 1.73E+02 | 9.66E+04 | Check Soil Residual Saturation TPH Levels: Refer to Table 747-5 | | | | |

Notes:

(1) These are the soil leaching concentrations calculated by the 3- or 4-phase equilibrium partitioning models. These modelled concentrations are predicted to be protective of the target TPH groundwater concentration.

(2) Individual cPAHs are not included in the soil leaching calculations to predict a total TPH concentration protective of potable groundwater. Compliance with cPAHs in soil for the protection of groundwater is determined separately using the 3-phase partitioning model - see Ecology Implementation Memo No. 10 - Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs) (April 20, 2015). See weblink below.

[Link to Ecology Implementation Memo 10](#)

A2.2 Worksheet for Calculating Soil Cleanup Level for the Protection of Groundwater Quality: Leaching Pathway**WAC 173-340-740 and 747**

| Date: 01/16/24 Site Name: Whidbey Island Sample Name: MW-21D-S7 | | | | Site-Specific Hydrogeological Properties previously entered: | | | |
|---|---------|--------------|----------|---|----------|-------|----------|
| | | | | Item | Symbol | Value | Units |
| Soil Leaching Pathway Results <div> Chemical of Concern or EC Group Measured Soil Conc @dry basis mg/kg </div> <div> Soil Conc being tested (1) mg/kg </div> <div> Predicted Conc @Well µg/L </div> | | | | Total soil porosity: | n | 0.43 | unitless |
| | | | | Volumetric water content: | Q_w | 0.3 | unitless |
| | | | | Volumetric air content: | Q_a | 0.13 | unitless |
| | | | | Soil bulk density measured: | ρ_b | 1.5 | kg/L |
| | | | | Fraction Organic Carbon: | f_{oc} | 0.001 | unitless |
| | | | | Dilution Factor: | DF | 1 | unitless |
| Petroleum EC Fraction | | | | Target TPH Groundwater Concentration | | | |
| AL_EC >5-6 | 0.7 | 2.99E-03 | 7.74E-01 | Target Groundwater TPH Conc, µg/L: 500 | | | |
| AL_EC >6-8 | 22.7 | 9.69E-02 | 1.16E+01 | Calculate Soil Leaching Protective Condition for the Measured Sample Concentration <div> Calculate a Soil Concentration that is Protective of the Target TPH Groundwater Concentration </div> <div> Click the button below to run Soil Leaching calculations. Note: a target TPH Groundwater Conc must be entered in Worksheet A1_Soil Data Entry to run the soil leaching calculation. </div> <div> Calculate Soil Leaching Cleanup Level </div> | | | |
| AL_EC >8-10 | 33.6 | 1.43E-01 | 3.84E+00 | | | | |
| AL_EC >10-12 | 80.4 | 3.43E-01 | 1.40E+00 | | | | |
| AL_EC >12-16 | 54.8 | 2.34E-01 | 4.30E-02 | | | | |
| AL_EC >16-21 | 5.75 | 2.45E-02 | 2.57E-06 | | | | |
| AL_EC >21-34 | 5.75 | 2.45E-02 | 1.24E-08 | | | | |
| AR_EC >8-10 | 44.9 | 1.92E-01 | 1.05E+02 | | | | |
| AR_EC >10-12 | 91.8 | 3.92E-01 | 1.44E+02 | | | | |
| AR_EC >12-16 | 102 | 4.35E-01 | 8.35E+01 | | | | |
| AR_EC >16-21 | 20.8 | 8.88E-02 | 5.54E+00 | | | | |
| AR_EC >21-34 | 5.75 | 2.45E-02 | 1.90E-01 | | | | |
| Benzene | 0.0005 | 2.13E-06 | 7.80E-03 | | | | |
| Toluene | 0.0015 | 6.40E-06 | 1.81E-02 | | | | |
| Ethylbenzene | 1.3 | 5.55E-03 | 1.33E+01 | | | | |
| Total Xylenes | 7.6 | 3.24E-02 | 7.28E+01 | | | | |
| Naphthalene | 7.6 | 3.24E-02 | 2.33E+01 | | | | |
| 1-Methyl Naphthalene | 5.8 | 2.48E-02 | 9.07E+00 | | | | |
| 2-Methyl Naphthalene | 16 | 6.83E-02 | 2.55E+01 | | | | |
| n-Hexane | 0 | 0.00E+00 | 0.00E+00 | | | | |
| MTBE | 0 | 0.00E+00 | 0.00E+00 | | | | |
| Ethylene Dibromide (EDB) | 0 | 0.00E+00 | 0.00E+00 | | | | |
| 1,2 Dichloroethane (EDC) | 0 | 0.00E+00 | 0.00E+00 | | | | |
| Benzo(a)anthracene | | | | | | | |
| Benzo(b)fluoranthene | | | | | | | |
| Benzo(k)fluoranthene | | | | | | | |
| Benzo(a)pyrene | | see Note (2) | | | | | |
| Chrysene | | | | | | | |
| Dibenz(a,h)anthracene | | | | | | | |
| Indeno(1,2,3-cd)pyrene | | | | | | | |
| Sum | 507.252 | 2.17E+00 | 5.00E+02 | | | | |

Notes:

(1) These are the soil leaching concentrations calculated by the 3- or 4-phase equilibrium partitioning models. These modelled concentrations are predicted to be protective of the target TPH groundwater concentration.

(2) Individual cPAHs are not included in the soil leaching calculations to predict a total TPH concentration protective of potable groundwater. Compliance with cPAHs in soil for the protection of groundwater is determined separately using the 3-phase partitioning model - see Ecology Implementation Memo No. 10 - Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs) (April 20, 2015). See weblink below.

[Link to Ecology Implementation Memo 10](#)

APPENDIX F

Potential Data Gaps Investigation

APPENDIX F

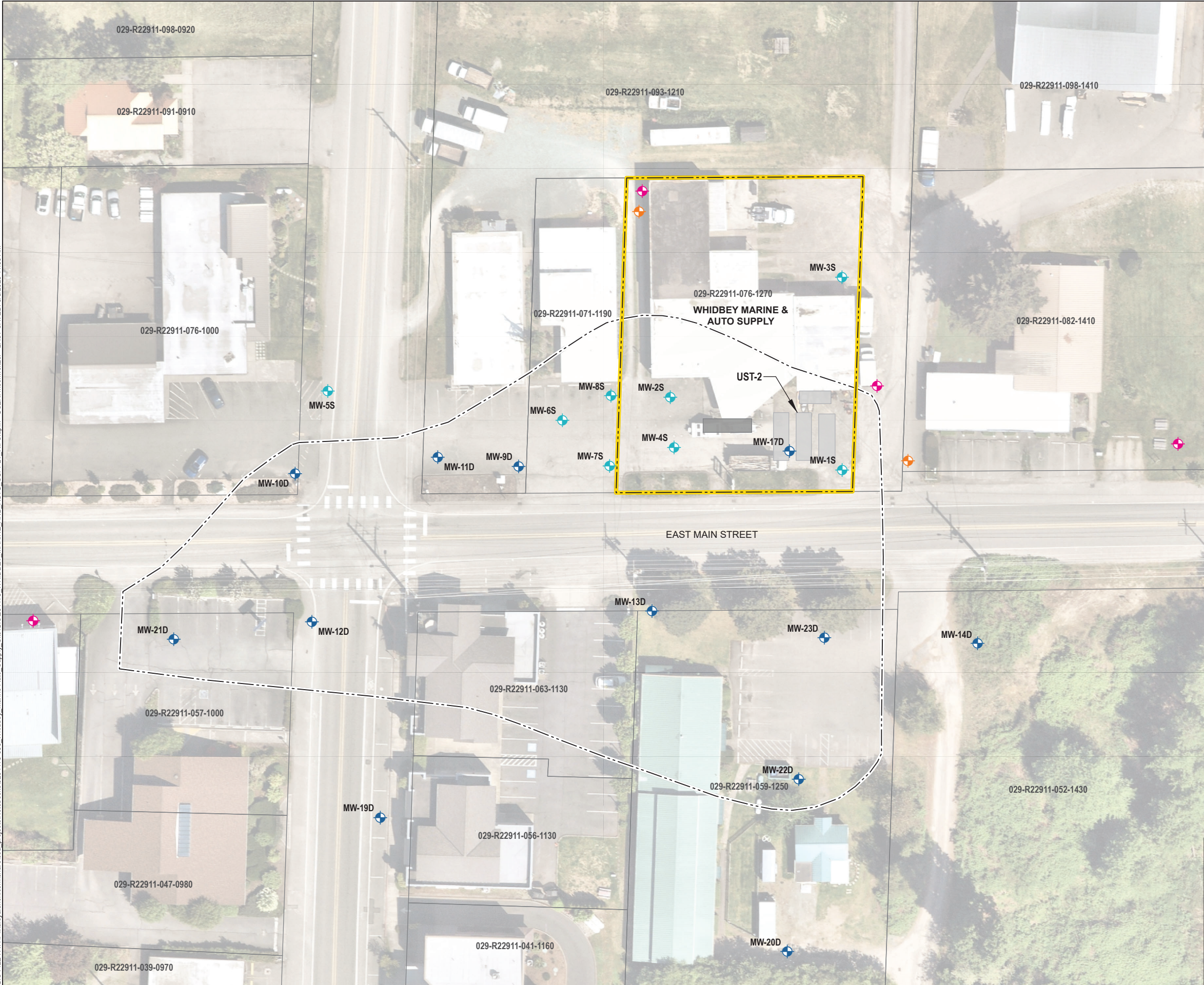
Potential Data Gaps Investigation

A conceptual data gaps investigation scope of work and cost estimate was prepared as part of this remedial investigation and feasibility study to address the data gaps identified in the previous section in advance of cleanup implementation. The analyses, number of borings and wells, and sample counts listed are assumed to effectively close the data gaps identified and are used for cost estimating purposes. The full scope of work will be finalized in a data gaps investigation work plan—the conceptual cost estimates are included here for reference only. The data gaps investigation scope of work includes the following.

- Prepare a work plan presenting the location and depths of proposed sub-slab samples, soil borings, and monitoring wells; detail the multi-media sampling methods to be used; and describe the number and location of samples to be collected and detail the analyses and analytical test methods. The estimated cost of completing this task is approximately \$20,000 to \$30,000.
- Install sub-slab temporary vapor pins within the building foundation and collect sub-slab samples for analysis of volatile organic carbons (VOCs) and air phase hydrocarbons to evaluate potential vapor intrusion. For cost estimating purposes, four vapor pins are assumed to be installed and one round of samples will be collected. The estimated cost of completing this task is approximately \$16,000 to \$23,000.
 - If analytical results indicate that there is a vapor intrusion risk, additional sub-slab samples should be collected at properties to the west (parcels 029-R22911-071-1190 and 029-R22911-057-1000). These additional samples would be collected in a separate phase and costs are excluded from this cost estimate.
- Advance soil borings below the footprint of the building on the former Whidbey Marine & Auto Supply property (Property) to identify if contamination is remaining within the upper 15 feet. For cost estimating purposes, ten borings are assumed to be advanced up to 15 feet bgs using a direct push drill rig. The estimated cost of completing this task, including analysis of soil samples for the Whidbey Marine & Auto Supply site (Site) chemicals of concern (COCs), is approximately \$39,000 to \$58,000.
- Install monitoring wells within the SeaLevel Aquifer and the perched groundwater zone to delineate the extent of petroleum impacts within the Sea-Level Aquifer and the on-Property source and extent of chlorinated volatile organic compounds in soil and groundwater. For cost estimating purposes, six borings advanced to a maximum of 120 feet bgs, installation of six new monitoring wells (four within the Sea-Level Aquifer and two within the perched groundwater zone [Figure F-1]), collection and analysis of soil samples from borings, and collection and analysis of groundwater samples from monitoring wells are assumed. Analysis of up to 55 soil samples (including duplicates) and up to 22 groundwater samples (including duplicates) for Site COCs over two sampling events is assumed. The estimated cost of completing this task is approximately \$180,000 to \$269,000.
- Prepare a report summarizing the data gap investigation key findings, and assessing whether additional data gaps are required to be addressed prior to cleanup. The estimated cost of completing this task could range between approximately \$44,000 to \$66,000.

The estimated cost to complete the data gaps investigation scope of work listed above could range between approximately \$320,000 and \$478,000.

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LEGEND

PROPOSED MONITORING WELLS

- PERCHED ZONE MONITORING WELL
- SEA LEVEL AQUIFER MONITORING WELL

EXISTING MONITORING WELLS

- PERCHED ZONE MONITORING WELL
- SEA LEVEL AQUIFER MONITORING WELL

- FORMER PUMP ISLAND
- FORMER UNDERGROUND STORAGE TANK (UST)
- CURRENTLY KNOWN SITE BOUNDARY
- PROPERTY BOUNDARY
- PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. MONITORING WELLS WERE SURVEYED BY APEX ENGINEERING ON 30 JANUARY 2024, WITH THE EXCEPTION OF MW-18 WHICH WAS INACCESSIBLE
3. CURRENTLY KNOWN SITE BOUNDARY REPRESENTS THE APPROXIMATE EXTENT OF KNOWN CHEMICAL CONCENTRATIONS DETECTED ABOVE APPLICABLE SCREENING LEVELS. THE SOURCE OF SOME CHEMICAL EXCEEDANCES IS CURRENTLY UNKNOWN AND MAY NOT BE ASSOCIATED WITH A RELEASE FROM THE WHIDBEY MARINE & AUTO SUPPLY PROPERTY
4. SITE FEATURES DATE SOURCE: DIGITIZED FROM "FIGURE 3", PRELIMINARY PLANNING ASSESSMENT, SES, 2017
5. ASSESSOR PARCEL DATA SOURCE: ISLAND COUNTY
6. AERIAL IMAGERY SOURCE: NEARMAP, 14 MAY 2023



0 50 100
SCALE IN FEET

HALEY
ALDRICH

WHIDBEY MARINE & AUTO SUPPLY
1695 EAST MAIN STREET
FREELAND, WASHINGTON

POTENTIAL DATA GAPS
INVESTIGATION SITE PLAN

MAY 2025

FIGURE F-1