
CLEANUP ACTION REPORT



Property:

SKS Shell Station Site
3901 Southwest Alaska Street
Seattle, Washington

Prepared for:

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1325 Fourth Avenue, Suite 1700
Seattle, Washington

Report Date:

October 20, 2016

Cleanup Action Report

Prepared for:

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SKS Shell Station Site
3901 Southwest Alaska Street
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TABLE OF CONTENTS

| | |
|---|-----------|
| ACRONYMS AND ABBREVIATIONS | v |
| 1.0 INTRODUCTION | 1 |
| 1.1 PURPOSE AND OBJECTIVE | 1 |
| 1.2 REPORT ORGANIZATION..... | 1 |
| 2.0 SITE BACKGROUND | 2 |
| 2.1 PROPERTY LOCATION AND DESCRIPTION | 2 |
| 2.1.1 SKS Shell Property | 2 |
| 2.1.2 Fautleroy Way Southwest and Southwest Alaska Street Rights-of-Way | 2 |
| 2.2 LAND USE HISTORY | 3 |
| 2.2.1 SKS Shell Property | 3 |
| 2.2.2 Adjoining Development Properties..... | 3 |
| 2.3 SUMMARY OF PREVIOUS INVESTIGATIONS | 4 |
| 3.0 SELECTED CLEANUP ACTION AND STANDARDS..... | 5 |
| 3.1 CHEMICALS AND MEDIA OF CONCERN | 6 |
| 3.2 CLEANUP LEVELS | 6 |
| 3.3 EXPOSURE PATHWAYS | 7 |
| 4.0 CLEANUP ACTION IMPLEMENTATION | 7 |
| 4.1 SITE SPECIFIC HEALTH AND SAFETY..... | 8 |
| 4.2 UST DECOMMISSIONING..... | 8 |
| 4.3 ASBESTOS ABATEMENT | 8 |
| 4.4 BUILDING DEMOLITION..... | 9 |
| 4.5 DEWATERING SYSTEM INSTALLATION AND OPERATION..... | 9 |
| 4.6 MONITORING WELL DECOMMISSIONING..... | 10 |
| 4.7 SOIL CLASSIFICATION..... | 10 |
| 4.8 SHORING INSTALLATION | 11 |
| 4.9 EXCAVATION..... | 11 |
| 4.9.1 Kennedy Excavation | 12 |
| 4.10 FIELD DISCOVERIES..... | 13 |
| 4.10.1 UST05 and UST06..... | 13 |
| 4.10.2 UST07 | 13 |
| 4.10.3 SKS Garage Plume Areas | 14 |
| 4.11 SOIL TRACKING | 15 |
| 4.12 VAPOR BARRIER INSTALLATION | 15 |
| 4.13 MONITORING WELL INSTALLATION | 16 |
| 5.0 COMPLIANCE MONITORING..... | 16 |

TABLE OF CONTENTS (CONTINUED)

| | | |
|------------|--|-----------|
| 5.1 | PROTECTION MONITORING | 16 |
| 5.2 | PERFORMANCE MONITORING | 17 |
| 5.2.1 | Soil..... | 17 |
| 5.2.2 | Groundwater..... | 17 |
| 5.3 | CONFIRMATIONAL MONITORING | 18 |
| 5.3.1 | Soil Confirmation Sampling..... | 18 |
| 5.3.2 | Groundwater Confirmation Sampling..... | 19 |
| 6.0 | PLANNED ACTIONS | 19 |
| 6.1 | CONTINGENCY CHEMICAL OXIDATION INJECTION PLAN..... | 19 |
| 7.0 | CONCLUSIONS | 19 |
| 8.0 | LIMITATIONS | 20 |
| 9.0 | REFERENCES | 20 |

FIGURES

| | |
|----|---|
| 1 | Property Location Map |
| 2 | Project and Site Location Plan |
| 3 | Current and Historical Features |
| 4 | Exploration Location Plan |
| 5 | Historical Geologic Cross Section A–A' |
| 6 | Historical Geologic Cross Section B–B' |
| 7 | Historical Soil Analytical Results |
| 8 | Historical Groundwater Analytical Results and Groundwater Contour Map |
| 9 | Performance Sample Locations – 260 to 270 feet NAVD88 |
| 10 | Performance Sample Locations – 255 feet NAVD88 |
| 11 | Performance Sample Locations – 250 feet NAVD88 |
| 12 | Performance Sample Locations – Final Extent |
| 13 | Field Discoveries |
| 14 | UST Sample Locations |
| 15 | Vapor Barrier Extent and Monitoring Well Locations |

TABLES

| | |
|---|---|
| 1 | Summary of Historical Soil Analytical Results |
| 2 | Summary of Historical Groundwater Data and Analytical Results |
| 3 | Summary of Soil Analytical Results – TPH and BTEX |
| 4 | Summary of UST Product Samples |
| 5 | Summary of UST Soil Samples – TPH, BTEX, and Lead |

TABLE OF CONTENTS (CONTINUED)

PROPERTY PHOTOGRAPHS

APPENDICES

- A Abatement Documentation
- B Boring Logs
- C Dewatering System Mass Calculations
- D UST Decommissioning Documents
- E Soil Removal Summary
- F Vapor Barrier Technical Components
- G Air Monitoring Logs
- H Laboratory Analytical Reports

Excavation Laboratory Analytical Results

Friedman & Bruya, Inc. #504059
Friedman & Bruya, Inc. #504219
Friedman & Bruya, Inc. #504270
Friedman & Bruya, Inc. #504311
Friedman & Bruya, Inc. #504332
Friedman & Bruya, Inc. #504429 and amended
Friedman & Bruya, Inc. #504459 and amended
Friedman & Bruya, Inc. #504514
Friedman & Bruya, Inc. #504531
Friedman & Bruya, Inc. #504542
Friedman & Bruya, Inc. #504574
Friedman & Bruya, Inc. #505009
Friedman & Bruya, Inc. #505034 and additional
Friedman & Bruya, Inc. #505159
Friedman & Bruya, Inc. #505163
Friedman & Bruya, Inc. #505195
Friedman & Bruya, Inc. #505212
Friedman & Bruya, Inc. #505407
Friedman & Bruya, Inc. #505424
Friedman & Bruya, Inc. #505460
Friedman & Bruya, Inc. #505496
Friedman & Bruya, Inc. #505501
Friedman & Bruya, Inc. #506004
Friedman & Bruya, Inc. #506028

UST Laboratory Analytical Results

Friedman & Bruya, Inc. #504058
Friedman & Bruya, Inc. #504162

TABLE OF CONTENTS (CONTINUED)

Friedman & Bruya, Inc. #504241

Friedman & Bruya, Inc. #504310

ACRONYMS AND ABBREVIATIONS

| | |
|-----------------|---|
| ACM | asbestos-containing material |
| AEI | Affordable Environmental, Inc. |
| bgs | below ground surface |
| BTEX | benzene, toluene, ethylbenzene, and total xylenes |
| CAP | Cleanup Action Plan |
| CAR | Cleanup Action Report |
| CDF | controlled density fill |
| Chinn | Chinn Construction, LLC |
| CMP | Construction Management Plan |
| COC | chemical of concern |
| CUL | cleanup level |
| Division Seven | Division Seven Waterproofing |
| DRPH | diesel-range petroleum hydrocarbons |
| Ecology | Washington State Department of Ecology |
| Elk Heights | Elk Heights Excavation LLC |
| EPA | U.S. Environmental Protection Agency |
| Erickson | Erickson Logging disposal facility |
| F&BI | Friedman & Bruya, Inc. |
| Filco | Filco Environmental Tank Services |
| GPS | global positioning system |
| GRPH | gasoline-range petroleum hydrocarbons |
| HASP | Health and Safety Plan |
| Huling property | Huling Chevrolet garage and auto body shop |
| ICC | International Code Council |

ACRONYMS AND ABBREVIATIONS (CONTINUED)

| | |
|--------------------|--|
| Kennedy property | Howden-Kennedy Funeral Home |
| Lennar | Lennar Multifamily Communities, LLC |
| LEL | lower explosive limit |
| MTCA | Washington State Model Toxics Control Act |
| NAVD88 | North American Vertical Datum 1988 |
| NIOSH | National Institute for Occupational Safety and Health |
| NWTPH | Northwest Total Petroleum Hydrocarbon |
| ORPH | oil-range petroleum hydrocarbons |
| OSHA | Occupational Safety and Health Administration |
| PCS | petroleum-contaminated soil |
| PID | photoionization detector |
| PPCD | Prospective Purchaser Consent Decree |
| ROW | right-of-way |
| the Site | includes soil and groundwater contaminated with gasoline- and diesel-range petroleum hydrocarbons, and benzene, toluene, ethylbenzene, and total xylenes beneath the SKS Shell Property, limited portions of the north-adjointing Southwest Alaska Street right-of-way, and the east-adjointing Fautleroy Way Southwest right-of-way |
| SKS Shell Property | the property located at 3901 Southwest Alaska Street, Seattle, Washington |
| SoundEarth | SoundEarth Strategies, Inc. |
| UST | underground storage tank |
| VCP | Voluntary Cleanup Program |
| WAC | Washington Administrative Code |
| Whittaker Property | collectively, the Huling Brothers property, Kennedy property, and SKS Shell Property |

1.0 INTRODUCTION

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Cleanup Action Report (CAR) for the SKS Shell Station Site consisting of the property located at 3901 Southwest Alaska Street in Seattle, Washington (the SKS Shell Property) and anywhere contamination originating on or from the SKS Shell Property has come to be located (the Site). The location of the SKS Shell Property is shown on Figure 1. The Site is part of the larger Whittaker Property redevelopment, which includes the immediately adjacent Huling and Kennedy properties, and SKS Shell Property. The parcels that make up the Whittaker Property are shown on Figure 2. This CAR was prepared pursuant to Prospective Purchaser Consent Decree (PPCD) #13-2-27556-2, effective July 29, 2013, with the Washington State Department of Ecology (Ecology).

The Site is defined by the full lateral and vertical extent of contamination exceeding applicable cleanup levels (CULs) that has resulted from releases of petroleum hydrocarbons at the SKS Shell Property. Based on the information gathered to date, chemicals of concern (COCs) identified in soil and groundwater at the Site include gasoline-range petroleum hydrocarbons (GRPH); diesel-range petroleum hydrocarbons (DRPH); and benzene, toluene, ethylbenzene, and total xylenes (BTEX) beneath the SKS Shell Property, limited portions of the north-adjointing Southwest Alaska Street right-of-way (ROW), and the east-adjointing Fauntleroy Way Southwest ROW, and limited portions of the west-adjointing Kennedy property and south-adjointing alley (Figure 2).

1.1 PURPOSE AND OBJECTIVE

Cleanup activities were performed under the PPCD in accordance with the Ecology-approved Cleanup Action Plan (CAP) dated June 16, 2014 (SoundEarth 2014b) following public comment. All cleanup activities were performed in compliance with Washington State Model Toxics Control Act (MTCA) under the supervision of Ecology. The purpose of the cleanup activities performed to date was to remove all soil contamination on or beneath the SKS Shell Property concurrent with excavation and construction activities related to the Whittaker Property redevelopment, and to initiate proposed groundwater treatment for the adjacent right-of-ways. The objective of this CAR is to (1) document field activities that were conducted as part of the cleanup action described in the Cleanup Action Plan, dated June 16, 2014 (SoundEarth 2014b), and the Construction Management Plan (CMP), dated January 2, 2015 (SoundEarth 2015), and (2) describe remaining compliance groundwater monitoring and treatment which may be necessary to achieve the established cleanup standards.

1.2 REPORT ORGANIZATION

This CAR is organized into the following sections:

- **Section 2.0, Site Background.** This section discusses the Site location and description, the land use history of the Site and surrounding parcels, and the previous investigations conducted at the Site.
- **Section 3.0, Selected Cleanup Action and Standards.** This section provides a summary of the selected cleanup action and the cleanup standards, including the remediation levels for the Site.
- **Section 4.0, Cleanup Action Implementation.** This section describes the components of the cleanup activities performed to date, including site demolition, monitoring well decommissioning, shoring installation, and soil excavation.

- **Section 5.0, Compliance Monitoring.** This section describes the protection, performance, and confirmational monitoring that was conducted as part of the cleanup activities performed to date. This section also includes a discussion of performance soil sampling results.
- **Section 6.0, Planned Actions.** This section presents remaining work which may be required under the selected remedy as detailed in the CAP that may be necessary to reduce COCs below applicable cleanup levels and accomplish goals for groundwater.
- **Section 7.0, Conclusions.** This section presents the conclusions based on the results of the cleanup action.
- **Section 8.0, Limitations.** This section discusses document limitations.
- **Section 9.0, References.** This section lists references cited in this document.

2.0 SITE BACKGROUND

This section provides a description of the Site features and location; a summary of the land use history of the SKS Shell Property; and a summary of previous investigations conducted for the Site. Additional background, including historical land use of surrounding parcels, geologic and hydrogeologic setting, and details of previous environmental investigations, is provided in the Remedial Investigation and Feasibility Study (SoundEarth 2014c) and the Phase I Environmental Site Assessment (SoundEarth 2014d).

2.1 PROPERTY LOCATION AND DESCRIPTION

The Site is defined by the nature and extent of contamination originating from the releases of hazardous substances on and beneath the SKS Shell Property, as discussed in Section 1.0 above. The SKS Shell Property and adjoining properties, including the ROW, affected by the release(s) from the SKS Shell Property are described in Sections 2.1.1 and 2.1.2 and presented on Figure 2.

2.1.1 SKS Shell Property

The SKS Shell Property is located on a 0.14-acre parcel (King County parcel no. 6126600495) within the West Seattle Triangle urban neighborhood. The SKS Shell Property was occupied by a gasoline station from 1934 to 2013 and is surrounded by commercial businesses and parking lots. The SKS Shell Property and the petroleum-impacted adjoining ROWs are described in the following sections and are presented on Figure 2.

Potable water and sewer service was provided to the SKS Shell Property by Seattle Public Utilities. Puget Sound Energy provides natural gas, and Seattle City Light provides electricity to the SKS Shell Property.

2.1.2 Fautleroy Way Southwest and Southwest Alaska Street Rights-of-Way

According to the City of Seattle Arterial Classifications Zoning Map, the Fautleroy Way Southwest ROW is zoned as a principal arterial and the Southwest Alaska Street ROW is zoned as an arterial street. The Fautleroy Way Southwest ROW is comprised of six through lanes and the Southwest Alaska Street ROW is comprised of four through lanes.

A 15-inch-diameter concrete sewer line and 6-foot City of Seattle electrical utilidor are located beneath the Southwest Alaska Street ROW. A 15-inch-diameter concrete sewer line and a water line are located beneath the Fauntleroy Way Southwest ROW.

2.2 LAND USE HISTORY

The historical uses of the SKS Shell Property and adjoining development properties are summarized below. Figure 3 presents current and historical features for the Property and surrounding area.

2.2.1 SKS Shell Property

This SKS Shell Property was developed as a gasoline station and an automotive repair facility in 1934. Successive oil companies retailing gasoline products at the SKS Shell Property include Gilmore Red Lion in the 1930s, Mobil Oil in the 1940s, Texaco in the 1950s, Atlantic Richfield in the 1960s, Arco from 1975 to 1995, Texaco from approximately 1998 to 2004, and Shell from 2004 to 2013.

In 1950, the original 1934 gasoline fueling pump equipment from the Gilmore operations was removed, and two 4,000-gallon underground storage tanks (USTs; UST-A and UST-B) were installed. The pump island and service station office were removed in 1961 and replaced with a new and relocated pump island. An additional 8,000-gallon UST was installed in 1974 (UST04). The two 1950-vintage USTs were removed in 1984 and replaced with one 10,000-gallon UST and two 12,000-gallon USTs (UST01 through UST03). Leaded gasoline, unleaded gasoline, and diesel fuel have been used and stored in various USTs at the SKS Shell Property.

In July 2013, the gasoline station closed and remaining fuel was removed from the USTs. The four USTs (UST01 through UST04) and associated piping and dispensers were removed in December 2013. These USTs appeared to be in good condition, with no holes or other obvious indications of a recent release observed. SoundEarth prepared and submitted a UST removal report to Ecology in January 3, 2014 (SoundEarth 2014a). No excavation of petroleum-contaminated soil (PCS) was conducted at the time of the UST removal. However, PCS was identified in auger cuttings and approximately 172 tons of auger cuttings drilled from the adjacent Fauntleroy Way Southwest ROW were removed and disposed of off-site. The auger borings were required for installation of H-pile beams as part of a shoring system for the UST excavation as well as the future development excavation. Shoring installation also required the decommissioning of monitoring well MW-2. Details of the UST decommissioning are discussed in Section 4.2 below and presented in the Underground Storage Tank Removal and Assessment Report (SoundEarth 2014a).

The building was demolished in November 2014 as part of redevelopment activities associated with the Whittaker Property. During the demolition, three hydraulic hoists were discovered beneath the building. The hoists were decommissioned and removed from the Property.

2.2.2 Adjoining Development Properties

Huling Chevrolet. In 1929, the Huling property was undeveloped except for a small residential structure near the southwest corner. Historical street grading profiles indicate that approximately 9 feet of fill was placed on the south end of the property near Southwest Edmunds Street.

A real estate office was constructed on the northern portion of the property in 1950. The office was initially heated by a stove and was converted to electric heat by 1967. Between 1959 and

1961, the office was moved to the northwestern portion of the property. A one-story, wood-framed, stove-heated coffee shop was constructed on the northern portion of the property in 1953. The coffee shop operated on the property until at least 1980. A one-story, masonry-framed repair garage was constructed on the northeastern portion of the property in 1959. Heat was provided by a suspended electric heater. All three buildings were demolished in 1983.

The automotive dealership and service garage building were constructed on the southern half of the property in 1952. The dealership and service facility was occupied by Westside Ford from the early 1950s to the early 1970s, Jim Houston Ford in the late 1970s, Goodyear Tire and Hart Chevrolet in the 1980s, and Huling Chevrolet from 1989 to 2008. The facilities and associated buildings were demolished in November 2014 as part of the Whittaker Property redevelopment. An additional automotive repair building was constructed to the north of the dealership building in 1983. This building was demolished by 1990. The retail building on the northern portion of the property was constructed between 1990 and 1995 and used as a used car sales office, and later as a produce stand. This building was demolished in November 2014 as part of the redevelopment activities.

The service garage equipment included 14 underground hydraulic hoists (one was removed in the 1990s) and a trench drain outlet leading to an oil/water separator. During the demolition activities in November 2014, 19 hydraulic hoist components were removed from the Huling building. During the initial phase of excavation work in January 2015, two additional hoist components were discovered and removed. Three USTs were removed by Lee Morse Contractors in September 1989. The removed USTs included a 2,500-gallon gasoline UST, a 1,000-gallon heating oil UST, and a 500-gallon waste oil UST. Information regarding remedial activities performed on the Huling Chevrolet property is located in the CAR submitted under Voluntary Cleanup Program (VCP) Project No. NW2716, Facility/Site No. 26131615, in 2016.

Kennedy Funeral Home. A funeral home operated on the Kennedy property from 1941 to 2014. The building was initially heated by a stove and was later converted to an oil-burning furnace. The building was occupied by the Howden-Kennedy Funeral Home since at least 1966 to 2014. Embalming took place on the property until approximately January 2012. A 500-gallon heating oil UST was located on the southern portion of the property and was decommissioned in January 2015 prior to cleanup action activities. Information regarding remedial activities performed on the Kennedy funeral home property is located in the Cleanup Action Report submitted under VCP Project No. NW2716, Facility/Site No. 26131615, in 2016.

2.3 SUMMARY OF PREVIOUS INVESTIGATIONS

The locations of soil borings, groundwater monitoring wells, and other SKS Shell Property features are shown on Figure 4. The soil and groundwater analytical results are shown on Figures 5 through 8 and in Tables 1 and 2. Additional details regarding previous subsurface investigations are present in the Remedial Investigation and Feasibility Study Report, dated June 24, 2014 (SoundEarth 2014c).

Previous subsurface investigations indicated that soil beneath the SKS Shell Property was contaminated with GRPH, DRPH, and BTEX exceeding the applicable soil CULs at depths generally ranging between 12 and 25 feet below ground surface (bgs). PCS was located beneath the northern and eastern two-thirds of the SKS Shell Property. However, the lateral (to the north and northeast) and vertical extents of contaminated soil were not fully characterized during these investigations.

Figure 4 shows the investigation borings used to plan the remedial excavation. The lateral extent of contaminated soil was bounded by soil boring SB202 to the north and monitoring well MW105 to the northeast, located in the Southwest Alaska Street and Fauntleroy Way Southwest ROWs, respectively. The southern extent of contamination extended beneath the historic SKS Shell building. The soil samples collected from monitoring well SMW04 indicate that the soil plume extended to the west beneath a portion of the Kennedy property. Soil boring SB401 bounded contaminated soil to the west. Soil borings conducted further south on the Huling and alley properties (including SMW03 and MW106) did not encounter PCS. Figure 7 shows the interpreted lateral extent of the identified PCS area before the remedial excavation.

Groundwater samples collected from monitoring wells located around the perimeter of the USTs and pump islands (wells MW-1 through MW-3 and GLMW-1 through GLMW-3) contain concentrations of GRPH, DRPH, and BTEX that exceeded the applicable groundwater CULs (Figure 8). Groundwater samples from monitoring well SMW04 indicated that the groundwater plume extended to the west beneath a portion of the Kennedy property. Groundwater elevations in these wells have historically ranged from approximately 23 to 26 feet bgs (243 to 247 feet North American Vertical Datum 1988 [NAVD88]). Based on depth to water measurements, groundwater at the Site generally flows to the northeast. Separate-phase hydrocarbons were intermittently observed in wells MW-1, MW-3, GLMW-2, and DW-2. Based on these historical groundwater results and the consistent groundwater flow direction to the northeast for the SKS Shell Property, the contaminant plume likely extends at depth beneath the sidewalks, but not across the Fauntleroy Way Southwest and Southwest Alaska Street ROWs. Based on previous testing of monitoring wells in the ROW, the lateral extent of groundwater contamination has been bounded.

Laboratory analytical results for groundwater samples collected from downgradient monitoring wells MW101 through MW103 and MW105 indicated that the plume extends less than 25 feet northeast of the SKS Shell Property boundary beneath the Fauntleroy Way Southwest ROW, and the plume does not extend beyond the Southwest Alaska Street ROW (Figure 8).

3.0 SELECTED CLEANUP ACTION AND STANDARDS

The selected cleanup action for the Site was a lot-line to lot-line excavation with ROW dewatering, water and vapor barrier installation, and chemical oxidation injections in the ROW. The selected remedy was determined to be the most permanent and effective alternative available for the Site. The excavation was compatible with the Site redevelopment plan. The redevelopment plans for the Whittaker Property included an overall excavation of the property to a subgrade elevation of approximately 248 feet NAVD88, with perimeter footings extending to elevation 247 feet NAVD88. The total excavation depth at the SKS Shell Property was extended in limited areas to approximately 30 feet bgs, or an elevation of 240 feet NAVD88. Excavation of the entire SKS Shell Property to this depth removed all soil exhibiting COCs above the respective cleanup levels, thereby eliminating the principal source of groundwater contamination.

The excavation and ROW dewatering activities were completed in June 2015. The groundwater beneath the SKS Shell Property and adjacent ROWs is currently being evaluated to determine if COCs in groundwater exceed the MTCA Method A cleanup levels. Due to construction activities, several wells along Southwest Alaska Street, RW06 through RW09 and MW107, are inaccessible and access to these wells is anticipated in fourth quarter 2016. If the COCs in groundwater are above the MTCA Method A

cleanup levels then a chemical oxidation injection event will be implemented, followed by additional groundwater monitoring. A solution of sodium persulfate activated by a 10 percent solution of hydrogen peroxide will be injected into the groundwater to chemically oxidize the COCs and provide an oxygen source to stimulate aerobic biodegradation of COCs. Additional details regarding the contingency injection plan are presented in Section 6.1.

3.1 CHEMICALS AND MEDIA OF CONCERN

The COCs for the Site are those compounds that were detected at concentrations exceeding their respective CULs. The depth of the planned excavation for the SKS Shell Property removed all soil that exhibited COC concentrations exceeding applicable cleanup levels. The soil was transported off the Site for disposal at an authorized disposal facility. The media and associated COCs are shown in the table below.

| Media of Concern | Chemicals of Concern |
|------------------|----------------------|
| Soil | GRPH, DRPH, BTEX |
| Groundwater | GRPH, DRPH, BTEX |

NOTES:

BTEX = benzene, toluene, ethylbenzene, and total xylenes
 DRPH = diesel-range petroleum hydrocarbons
 GRPH = gasoline-range petroleum hydrocarbons

3.2 CLEANUP LEVELS

The CULs for the media and COCs were included in the approved CAP and are tabulated below, including the source of the cleanup standard. The CULs for contaminated soil and groundwater at the Site are the MTCA Method A CULs for Unrestricted Land Use.

| COC | Cleanup Level (mg/kg) | Source |
|---------------|-----------------------|---|
| GRPH | 30 | MTCA Method A, Unrestricted; WAC 173-340-740(2)(b)(i) |
| DRPH | 2,000 | |
| Benzene | 0.03 | |
| Toluene | 7 | |
| Ethylbenzene | 6 | |
| Total xylenes | 9 | |

NOTES:

COC = chemical of concern
 DRPH = diesel-range petroleum hydrocarbons
 GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram
 MTCA = Washington State Model Toxics Control Act
 WAC = Washington Administrative Code

Cleanup Levels for Groundwater

| COC | Cleanup Level (µg/L) | Source |
|---------------|-------------------------|--|
| GRPH | 800 | MTCA Method A, Table Value; WAC 173-340-720(3)(b)(i) |
| DRPH | 500 | |
| Benzene | 5 | |
| Toluene | 1,000 | |
| Ethylbenzene | 700 | |
| Total Xylenes | 1,000 | |

NOTES:

µg/L = micrograms per liter

COC = chemical of concern

DRPH = diesel-range petroleum hydrocarbons

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code

3.3 EXPOSURE PATHWAYS

For soil, the potential for exposure includes volatilization into soil vapor and subsequent exposure through the vapor pathway, and via direct contact which comprises dermal contact and/or ingestion of soil. The direct contact pathway is not completed due to the excavation and removal of soil on-Property containing concentrations of COCs in excess of their respective cleanup levels. Any remaining contaminated soil in the Fautleroy Way Southwest ROW is below the direct contact point of compliance of 15 feet bgs and this area is capped by concrete and asphalt. Therefore, the soil direct contact pathway is considered incomplete.

A vapor barrier was installed after excavation work was completed on-Property. The vapor barrier covers the entire horizontal and vertical extent (north and east shoring walls) of the SKS Shell Property, and extends a minimum of 20 feet beyond any residual soil contamination or contaminated groundwater. Due to the source removal and installation of engineering controls the vapor inhalation pathway on the SKS Shell Property is considered incomplete.

Impacted groundwater is present beneath the Fautleroy Way Southwest ROW. The exposure pathways for groundwater include direct contact or inhalation of vapors. Engineering controls prevent direct contact with residually contaminated groundwater beneath the ROWs by commercial workers and future residents. Therefore, the direct contact pathway will be incomplete for residents and commercial workers at the completion of the development. A contaminant resistant water and vapor barrier was installed along the north and east shoring walls to prevent recontamination of soil or groundwater on the Property. This barrier also acts as an engineering control to eliminate the exposure pathway for contaminants volatilizing from groundwater to indoor air.

4.0 CLEANUP ACTION IMPLEMENTATION

This section provides a description of the components of the cleanup activities completed at the Site to date. The cleanup activities were designed to coincide with redevelopment activities at the SKS Shell Property. Construction activities were coordinated with Chinn Construction, LLC (Chinn), the general contractor for the construction project, with SoundEarth providing supervision and guidance for all remedial activities. Photographs of the cleanup activities implementation process are included as an attachment and annotated for the field activity being performed. Chinn and its subcontractors were provided and required

to perform the construction activities in accordance with the procedures detailed in the CMP, dated January 2, 2015, that was also provided to Ecology in advance of the cleanup activities.

4.1 SITE SPECIFIC HEALTH AND SAFETY

Before the commencement of construction activities, SoundEarth prepared a Site-Specific Health and Safety Plan (HASP) in accordance with Part 1910.120 of Title 29 of the Code of Federal Regulations. Chinn was responsible for the health and safety of its workers while on the SKS Shell Property.

SoundEarth field-screened ambient air during the excavation and shoring activities to monitor petroleum hydrocarbon levels in the breathing zone of personnel and equipment operators, and at the SKS Shell Property boundaries. Ambient air field screening was conducted using a photoionization detector (PID) and colorimetric gas detector tubes. Results of ambient air monitoring are discussed in Section 5.1.

An exclusion zone was set up around the SKS Shell Property to ensure only HAZWOPER (Hazardous Waste Operations and Emergency Response)-certified workers entered the contaminated area.

4.2 UST DECOMMISSIONING

SoundEarth Strategies Construction LLC conducted the UST removal activities between December 2 and 5, 2013. The following tanks were removed, with locations shown on Figure 7:

- Tank #1—a 12,000-gallon, single-walled, epoxy-coated, steel, gasoline UST installed in 1984
- Tank #2—a 12,000-gallon, single-walled, epoxy-coated, steel, gasoline UST installed in 1984
- Tank #3—a 10,000-gallon, single-walled, epoxy-coated, steel, gasoline UST installed in 1984
- Tank #4—an 8,000-gallon, single-walled, epoxy-coated, steel, gasoline UST installed in 1974

The single-walled steel tanks appeared to be in good condition with no evidence of holes or significant corrosion. Other than low to moderate petroleum odors noted during clearing of the pump island areas, no significant odors or sheens were noted in soil immediately below or surrounding the tanks. All fuel piping and dispenser systems associated with the USTs were also removed.

All USTs were decommissioned in compliance with applicable regulations for USTs.

Additional details and paperwork for the UST decommissioning are presented in the Underground Storage Tank Removal and Assessment Report (SoundEarth 2014a).

Additional USTs, UST05, UST06, and UST07, were discovered during excavation activities on the northwest corner of the SKS Shell Property. Details of the discovered tanks and the UST decommissioning are outlined below in Sections 4.10.1 and 4.10.2.

4.3 ASBESTOS ABATEMENT

In August and September 2013, SoundEarth performed a pre-demolition hazardous materials survey on the property buildings. Asbestos-containing materials (ACMs) were identified within the former building on the SKS Shell Property. Affordable Environmental, Inc. (AEI), a Washington State licensed asbestos abatement contractor, was contracted by SoundEarth Strategies Construction, LLC to abate the ACMs. In

September 2014, AEI provided written notification to the Washington State Department of Labor and Industries and the Puget Sound Clean Air Agency and, in October 2014, AEI removed the ACMs identified in the SoundEarth survey. Copies of the notifications and certification of completion are provided in Appendix A.

4.4 BUILDING DEMOLITION

Demolition of the 1934-vintage building on the SKS Shell Property was completed prior to the Site excavation. The demolition included the decommissioning and removal of three hydraulic hoists beneath the building. Demolition activities were conducted by SoundEarth Strategies Construction LLC in November 2014.

4.5 DEWATERING SYSTEM INSTALLATION AND OPERATION

Remediation well RW01 was installed on February 20, 2013, and remediation wells RW02 through RW09 were installed June 9 through 16, 2014, within the sidewalk along Fauntleroy Way Southwest and Southwest Alaska Street. The remediation wells were installed by Holt Services, Inc., of Puyallup, Washington, under the supervision of a SoundEarth hydrogeologist. Borings were advanced using a hollow-stem auger drill rig to a maximum depth of approximately 40 to 41 feet bgs. Remediation wells were constructed using 4-inch-diameter PVC piping, with 0.010-inch slot screen from 25 to 40 feet bgs, and blank casing from ground surface to 25 feet bgs (Appendix B). After well completion, the remediation wells were developed using a whale pump to purge between 45 to 120 gallons of water from each well.

In accordance with the CAP (SoundEarth 2014b), groundwater was pumped from the SKS Shell Property excavation dewatering trench and remediation wells, RW01 through RW09, located in the adjacent ROWs during excavation of PCS at the SKS Shell Property. Each remediation well was equipped with an electric submersible pump capable of the design flow rate of 0.5- to 1-gallon per minute. The average pumping rate for the 9-well system was approximately 4 to 5 gallons per minute during system operation. Pumps were plumbed into 1-inch-diameter PVC piping that ran to a 6,900-gallon poly tank for temporary storage of the contaminated groundwater. The groundwater was pumped into the temporary water storage tank, and the collected water was removed daily (or as necessary) and transported to a permitted off-property facility, Marine Vacuum Service, for treatment and disposal. The additional groundwater encountered during the overexcavation of soil beneath the SKS Shell Property to an approximate elevation of 242 feet NAVD88 (28 feet bgs) was gathered in the dewatering trench and pumped from the excavation and stored in the water storage tank for off-property treatment and disposal. Marine Vacuum Service provided a receipt with approximate gallons removed with each load of water that is transport off property. SoundEarth personnel observed the removal of all water by Marine Vacuum Service and reviewed the water removal receipt prior to signing.

The goal of the cleanup activities was to remove three pore volumes or approximately 75,000 gallons from beneath the SKS Shell Property and adjacent ROWs. Additional pore volumes were removed to aid the general contractor's need for a lower water table during construction and for the vertical over-excavation of contaminated soil. The dewatering system was started on March 23, 2015. Initial dewatering was conducted until April 15, 2015, when 50,000 gallons, the equivalent of 2 pore volumes, were removed from the Site. The system was restarted on May 21, 2015, to draw down groundwater levels during the deeper excavation on the Site. The dewatering system operated through June 26, 2015.

SoundEarth metered the total gallons of water removed; a total of 135,780 gallons of groundwater, approximately 5 pore volumes, were pumped and removed from the Site during 4 months of operation.

The treatment and disposal facility, Marine Vacuum Service, handles approximately 6 million gallons of nonhazardous, unregulated waste streams per year. Waste petroleum received at their facility is processed and recycled under the alternate fuels program. Waste water is treated in accordance with a Centralized Waste Treatment Permit issued by King County METRO, and solids are solidified and disposed of at permitted landfills.

Preliminary mass estimates were prepared for Ecology discussions in May 2013 and are provided for reference in Appendix C (Tables C-1 and C-2). It was estimated that approximately 6 pounds of gasoline-range petroleum hydrocarbons were originally present in groundwater beneath the Site. Performance groundwater samples were collected during each pore volume removed in order to estimate the actual mass recovered during system operations (Appendix C, Tables C-3 and C-4). Based on performance sampling data, approximately 4 pounds of GRPH and 0.18 pounds of benzene were removed with the dewatering system.

4.6 MONITORING WELL DECOMMISSIONING

Ten monitoring wells (MW-1, MW-2, MW-3, DW-1, DW-2, DW-3, DW-4, GLMW-1, GLMW-2, and GLMW-3) that were located within the excavation area were decommissioned (Figure 4). Monitoring wells were decommissioned by a SoundEarth licensed Engineer in accordance with Chapter 173-160-460 of the Washington Administrative Code (WAC 173-160-460). Monitoring wells casings were filled with bentonite chips to grade and hydrated. Monitoring wells DW-2 and MW-1 were decommissioned prior to excavation activities. Monitoring wells MW-2, MW-3, GLMW-1 through GLMW-3, and DW-1 were decommissioned as they were uncovered during excavation activities. Monitoring wells DW-3 and DW-4 were unable to be located prior to or during the excavation. Based on the location of the wells along the property line, it is assumed that they were destroyed during the soldier pile installation.

4.7 SOIL CLASSIFICATION

SoundEarth, Lennar Multifamily Communities, LLC, Chinn, and the earthwork contractor discussed the recommended soil disposal facilities prior to the excavation and ensured all parties were in agreement for the preferred disposal facilities for the soil classification system detailed in the CMP. The CMP identified the following soil classifications to efficiently direct the real-time segregation of excavated soil and loading of haul trucks:

- Class 1—Non-Impacted fill or native soil (without debris)
- Class 2—Impacted fill or native soil (below MTCA cleanup levels)
- Class 3—Contaminated fill or native soil (above MTCA cleanup levels)
- Class 4—Debris soil (greater than 20 percent debris)

For more detailed information on soil classification designations and disposal acceptance criteria for permitted landfill facilities, refer to the CMP (SoundEarth 2015).

4.8 SHORING INSTALLATION

Shoring was required to protect the structural integrity of the planned excavation, the surrounding properties, and the adjoining ROWs. The shoring consisted of a soldier pile and wood lagging system with up to two sets of tie backs. The soldier piles were installed by a solid, double-flight auger drilling rig in 24-inch to 30-inch boreholes filled with controlled density fill (CDF). Following pile installation and CDF curing, the property perimeter was excavated vertically in 4- to 5-foot lifts. After each lift, timber lagging boards were installed. In addition, at prescribed depths tieback anchors were drilled and installed.

Piles E3 through E11 were installed during UST removal in December 2013. PCS was encountered in Piles E3 through E8 during augering. Soil with hydrocarbon odors were encountered during shoring installation between piles N27 through N33; and E1, E2, and E9 through E12, as well as during tieback installation in this area. The contaminated soils encountered were stockpiled on the SKS Shell Property and managed as Class 3 contaminated soil.

4.9 EXCAVATION

Remedial excavation for the SKS Shell Property was conducted between April and June 2015 in compliance with the procedures set forth in the CMP. Chinn was the general contractor for the duration of the project, and Elk Heights Excavation LLC (Elk Heights) of Maple Valley, Washington, was the earthworks contractor responsible for excavation and transportation of soils. A SoundEarth geologist observed excavation activities of all contaminated soils. Performance and confirmation soil sample locations are shown on Figures 9 through 12 and presented in Table 3.

The SKS Shell Property was excavated from approximately lot-line to lot-line as part of the redevelopment project. Elk Heights used excavators to excavate and load soil into haul trucks staged on the Site. The existing alleyway was used as a haul road through the Site until soil was excavated to approximately 12 feet bgs, or native soil was reached. Contaminated soils from below 12 feet bgs were excavated and transferred to the east side of the Site and loaded onto haul trucks on Fauntleroy Way Southwest. Soil was transferred along a flat surface, lined with plastic sheeting overlain by steel plates, to ensure no cross contamination during transport of contaminated soil.

SoundEarth used a soil management grid system that divided the Site into 24-foot by 24-foot grids. A handheld Trimble global positioning system (GPS) was used to store sample location points. If the GPS was not able to be used, sample locations were measured with a tape measure off the nearest shoring wall. Soil samples were labeled according to the specific property, bottom or sidewall, grid location, and depth in elevation, in accordance with the Site CMP. All sample depths were sampled based on NAVD88 elevation, with the top of the northeast soldier pile as a benchmark at approximately 270 feet NAVD88.

Excavation activities on the SKS Shell Property occurred in 5-foot lifts concurrent with shoring installation. Soil was field screened for indications of petroleum contamination, including staining, petroleum hydrocarbons odors, and elevated PID readings. PID screening was performed vertically and horizontally within each grid to confirm the presence of petroleum contamination. Performance samples were collected within each grid every 5 vertical feet, starting at approximately 261 feet NAVD88, or approximately 9 to 10 feet bgs. Additional performance samples were collected to assess contaminated soils encountered during excavation. Discovery areas are outlined below. Sidewall samples were collected on 5-foot vertical grids along Southwest Alaska Street and Fauntleroy Way

Southwest at 255, 250, and 245 feet NAVD88. South and west sidewall samples were collected every 5 vertical feet after all soils with indications of petroleum contamination were removed. Soil was screened at the final extent of the excavation floor prior to collecting confirmation samples. Floor samples were collected from each soil management grid. The final excavation depth ranged from 243 feet NAVD88 (27 feet bgs) in grid B3 to 240.5 feet NAVD88 (29.5 feet bgs) in grid A3. Soil samples for each elevation are depicted in Figure 9 through 12.

Excavated soil generally consisted of brown, sandy fill material to approximately 10 to 15 feet bgs, including fine to medium sand used to backfill the former UST tank beds. From 15 feet to 30 feet bgs, soil consisted of blue-gray sandy silt to silty sand with very strong hydrocarbon odors. Soils with strong hydrocarbon odors were typically stained blue-gray.

A total of 93 soil samples were collected during the SKS Shell Property excavation. Of those samples, 14 were collected from the floor of the excavation area (Figure 12). Soil samples were collected by a SoundEarth geologist and transferred directly to laboratory-prepared sample containers labeled with unique laboratory identification numbers. The containers were placed in an iced cooler and transported for laboratory analysis to Friedman & Bruya, Inc. (F&BI) under standard chain-of-custody protocols. Samples were analyzed for one or more of the following: DRPH and oil-range petroleum hydrocarbons (ORPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Dx, GRPH by Method NWTPH-Gx, and BTEX by U.S. Environmental Protection Agency (EPA) Method 8021B or 8260C. Select samples were analyzed for forensic fingerprints. See Sections 5.2.1 and 5.3.1 for the chemical analytical results of the samples described in this paragraph.

Excavated soil on the Property was exported to one of the following disposal facilities: AAA Monroe Rock, in Snohomish, Washington; Erickson Logging (Erickson), in Ravensdale, Washington; or CEMEX in Everett, Washington, depending on the facilities' respective soil acceptance criteria.

4.9.1 Kennedy Excavation

Previous investigations indicated GRPH and benzene contamination from the SKS Shell Property had migrated onto the northeastern portion of the Kennedy property. The northern and western extents of the GRPH contamination from the SKS Shell Property were bounded by borings SB401 and MW107.

Excavation activities along the Kennedy-SKS Shell Property boundary occurred in 5-foot lifts corresponding with shoring installation activities. Soil was excavated between April 2 and May 27, 2015. The initial 15 feet of excavation (to approximately 255 feet NAVD88) on the northeast portion of the Kennedy property was clean soil hauled to Erickson for disposal. Soil below 255 feet NAVD88 (15 feet bgs) exhibited strong hydrocarbon odors in grids C1 and D1 on the Kennedy property. Soil was field screened for odors and sheen as excavation activities continued to the west and to final depth.

The western extent of petroleum contamination from the SKS Shell Property extended approximately 28 feet west of the property line into grids D1 through D3. The bottom of the excavation extended to 242 to 243 feet NAVD88 (27 to 28 feet bgs).

A remedial excavation of heating oil contaminated soil occurred on the Kennedy Property immediately west of the SKS Shell Property. The contaminated soil associated with the Kennedy Property heating oil UST was excavated and disposed of separately from the SKS plume. The

eastern extent of the Kennedy heating oil plume appeared to comeingle with the western extent of the SKS contamination on the Kennedy property. Sidewall samples collected at the boundary of the SKS Shell Property and the heating oil plume were used to confirm compliance with applicable cleanup levels for both the SKS Shell and Kennedy Properties. Additional discussion on the comingled plumes is included below in Section 4.10.3.

4.10 FIELD DISCOVERIES

Unexpected contaminated areas were encountered during the remedial excavation. Additional details for each discovery are provided below, and the discovery areas are shown on Figure 13.

4.10.1 UST05 and UST06

On April 2, 2015, an excavator operator encountered two USTs on the northwest portion of the SKS Shell Property (Figure 13). Measurements of UST05 and UST06 exteriors indicated that the USTs were approximately 500- and 1,000-gallon capacity, respectively. During initial observations, no hydrocarbon odors or soil staining were observed in the vicinity of the UST. UST05 was approximately half full of oily water. UST06 contained approximately 6 inches of sludge at the bottom of the tank. Product samples were collected from both USTs for forensic analysis (Table 4).

UST05 and UST06 were decommissioned and removed on April 8, 2015. SoundEarth provided an International Code Council (ICC)-certified UST Site Assessor and conducted a site assessment in general accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology 2003). SoundEarth contracted River's Edge to provide an ICC-certified UST Decommissioner and a National Fire Protection-certified Marine Chemist.

Prior to removal, the USTs were inerted with carbon dioxide by a certified Marine Chemist, and the lower explosive limit (LEL) and percent oxygen readings were measured to confirm that conditions were safe to proceed with UST excavation. Marine Vacuum Services, Inc. pumped the residual liquid out of UST05 and UST06 prior to tank removal. Elk Heights, the earthworks contractor, assisted with the removal of the USTs. Both USTs appeared in good condition upon removal, with no visible holes or damage.

Six discrete soil samples were collected from the sidewalls of the UST excavation area and a discrete bottom sample was collected below the bottom of each UST. Sample locations are depicted on Figure 14 and presented in Table 5. No indications of PCS were observed in the soil below or surrounding the USTs. Analytical results for the UST soil samples were below the laboratory reporting limit and/or MTCA Method A cleanup levels for all analyzed COCs. Documentation for the UST removal is included in Appendix D.

4.10.2 UST07

On April 13, 2015, an excavator operator encountered one UST on the northwest portion of the SKS Shell Property, south of previously located UST05 and UST06 (Figure 13). Measurements of UST07 indicated the tank was approximately 1,000 gallon capacity.

UST07 was decommissioned and removed on April 16, 2015. SoundEarth provided an ICC-certified UST Site Assessor and conducted a site assessment in general accordance with Ecology's 2003 guidance. SoundEarth contracted Filco Environmental Tank Services (Filco) to provide for an ICC-certified UST Decommissioner and a National Fire Protection-certified Marine Chemist. Prior to removing the tank, Filco pumped the residual liquid out of the UST. The LEL

and percent oxygen were measured by a certified Marine Chemist, to verify that the UST was inert. Elk Heights removed UST07 from the ground and loaded it up for disposal. The UST appeared in good condition, with no visible holes or damage.

Soil samples were collected from each sidewall and from below the bottom of the UST (Figure 14). The samples were analyzed for DRPH, ORPH, GRPH, and BTEX. Concentrations of DRPH, ORPH, GRPH, and BTEX were below remediation levels and/or MTCA Method A cleanup levels in all of the soil samples (Table 5). Documentation for the UST removal is included in Appendix D.

4.10.3 SKS Garage Plume Areas

Indications of petroleum contamination were encountered in grid C4 at approximately 1 foot bgs (270 feet NAVD88) in the vicinity of the former SKS garage (Figure 10). A performance sample was collected from grid C4 for profiling. Analytical result indicated concentrations of GRPH above the MTCA Method A cleanup level. The B4/C4 shallow petroleum impacted area was excavated on April 24, 2015, and stockpiled for disposal. The excavation area was approximately 28 feet by 28 feet, and extended approximately 8 feet west onto the Kennedy parcel. Final depth was approximately 263 feet NAVD88. Sidewall and bottom samples were collected from the final extents of the B4/C4 shallow petroleum impacted area. Analytical results indicated the east sidewall sample contained concentrations of GRPH, DRPH, and ORPH above the applicable MTCA Method A CULs. The area was excavated on April 30, 2015, until an east sidewall sample was collected to confirm all soil exceeding MTCA Method A CULs had been excavated.

On May 1, 2015, additional indications of petroleum contamination were encountered within grids B4/B5 at approximately 261 feet NAVD88. Soil encountered was black silty sand, with strong hydrocarbon odor, and was located 2 to 3 feet deeper than previously encountered contamination in the vicinity. Analytical results indicated concentrations of GRPH and DRPH above the MTCA Method A CUL. The deeper impacted area, B4/B5/C5 deep petroleum impacted area, was excavated on May 4, 2015. SoundEarth screened soils as the excavation continued north and west, removing all soil with strong hydrocarbon odors. The excavation area continued west into the Kennedy property, and south into the Huling alleyway. Strong odors were still present at the bottom of the excavation at 252 feet NAVD88, and within the north and west sidewalls. Excavation activities were halted to collect sidewall and bottom samples for profiling and forensic samples. One sample from the SKS Shell Property and one sample from the Kennedy property were collected from both the north and west sidewalls, and the bottom of the excavation. A performance sample was also collected from the south sidewall.

Analytical results from the B4/B5/C5 deep petroleum impacted area contained concentrations of GRPH and DRPH above the MTCA Method A CUL. The composition of GRPH and DRPH in soil samples collected from both the SKS Shell Property and the Kennedy property sides of the excavation indicated a similar source of contamination at comparable magnitudes. The forensic analysis indicated soil samples resembled a degraded middle distillate such as kerosene.

The C5/B5 excavation area overlapped with the main SKS gasoline plume to the north and into the Kennedy heating oil excavation to the west of the SKS property line. The excavation was terminated when final sidewall samples collected from the C5/B5 area showed that MTCA Method A CULs had been met. The final extent of the SKS plume discovery area is depicted on Figure 13.

4.11 SOIL TRACKING

SoundEarth tracked all Class 2 and Class 3 soil exported from the Site. SoundEarth prepared a soil ticket for each individual load of soil that left the Site. Soil tickets identified the property name, grid reference, ticket number, date of export, soil references, disposal facility, truck number, and data references. Truck drivers filled in the scale weight for each truck load and provided SoundEarth with a disposal facility scale ticket, when applicable. SoundEarth maintained a log of all trucks departing the Site with soil for disposal as Class 2 or Class 3.

In addition to the soil tickets, a soil manifest was provided for every individual load of soil. SoundEarth obtained soil disposal profiles on behalf of LMI West Seattle Holdings, LLC, the current owner of the SKS Shell Property, based on the analytical data gathered during the environmental investigations. Soil manifests were provided for each disposal facility for specific classifications of soil.

In total, 192 tons of Class 2 soil was hauled to AAA Monroe, and 9,563 tons of Class 3 soil was hauled to CEMEX from the SKS Shell Property. The clean overburden and surrounding Class 1 soils were hauled to Erickson for disposal. The summary of soil removal is included in Appendix E.

4.12 VAPOR BARRIER INSTALLATION

As part of the cleanup action plan, a tiered vapor intrusion evaluation was conducted in accordance with Ecology's 2009 *Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action (revised February 2016)*. On June 12, 2014, groundwater samples were collected from monitoring wells, MW104, GLMW-1, and MW-3, prior to the excavation (Table 2). Concentrations of GRPH and benzene in groundwater in all three monitoring wells exceeded the MTCA Method B groundwater screening levels protective of indoor air, which ranges from 2.9 to 1,300 µg/L for GRPH and 2.4 µg/L for benzene.

The cleanup activities removed all impacted soil within the limits of the SKS Shell Property boundary and removed approximately 5 pore volumes of groundwater over the course of the excavation activities, which will greatly contribute to restoring groundwater quality beneath the SKS Shell Property and the adjacent Fauntleroy Way Southwest and Southwest Alaska Way ROWs. Due to residual soil and groundwater contamination that remains beneath the adjacent Fauntleroy Way Southwest and Southwest Alaska Way ROWs, a vapor barrier was specified to mitigate the potential vapor intrusion pathway.

After the completion of soil excavation activities on the SKS Shell Property, Chinn began construction of a 2-story sub-grade parking garage and building structure. Prior to pouring concrete foundation and vertical walls, a vapor barrier was installed on the sidewalls and floor of the excavation to mitigate the potential vapor intrusion pathway. The vapor barrier was installed by Division Seven Waterproofing (Division Seven), of Shoreline, Washington. Division Seven applied all components of the vapor barrier according to the manufacturers' specifications (Appendix F).

The vertical components of the vapor barrier include a waterproof Voltex DS contaminant resistant material, overlain by a VI-20 detailing fabric, and Liquid Boot. The Liquid Boot is a spray-applied water-based membrane that seals all vapor intrusion pathways. The vapor barrier components extend from the bottom of the building grade at 23 feet bgs (approximately 247 feet NAVD88) to approximately 4 to 5 feet bgs. The horizontal component of the vapor barrier consists of the Liquid Boot vapor barrier over

the VI-20 detailing fabric. Both the vertical and horizontal components of the vapor barrier extend off the SKS Shell Property to the south and west, as shown in Figure 15.

The technical components of the vapor barrier are included in Appendix F. Photographs of the installation process are included as an attachment.

4.13 MONITORING WELL INSTALLATION

On September 1, 2015, monitoring wells MW108 through MW110 were installed on the SKS Shell Property to complete compliance groundwater monitoring. The wells were installed by ESN Northwest, of Olympia, Washington, using a push-probe limited-access drill rig. Wells were installed under the supervision of a SoundEarth geologist. Monitoring well locations are shown on Figure 15.

Monitoring wells MW108 through MW110 were installed to an approximate elevation of 234 to 235 feet NAVD88 (35 to 36 feet bgs), with 10 feet of screen. Monitoring wells MW108 and MW109 were constructed with 3/4-inch-diameter blank PVC casing, and MW110 was constructed with 1-inch-diameter casing. All wells were flush-threaded to 0.010-inch slotted well screen. The bottom of each of the wells was fitted with a threaded PVC bottom cap, and the top of each well was fitted with a slip cap. The annulus of the monitoring wells was filled with 2/12 sand from the bottom of the well to approximately 6 inches above the well screen, and sealed with approximately 2 feet of bentonite and a concrete cap. The wells were completed at the surface with a flush-mounted, traffic-rated well box set in concrete. Boring logs of the monitoring wells are included in Appendix B.

Monitoring wells were developed by SoundEarth using a peristaltic pump to surge and purge the wells. Monitoring wells were purged until approximately five casing volumes were removed and the purge water no longer appeared turbid.

5.0 COMPLIANCE MONITORING

There are three types of compliance monitoring identified for the cleanup action (WAC 173-340-410): protection, performance, and confirmational monitoring. A paraphrased definition for each is presented below (WAC 173-340-410[1]):

- **Protection Monitoring.** To evaluate whether human health and the environment are adequately protected during the cleanup activities.
- **Performance Monitoring.** To document that the cleanup activities have attained cleanup standards.
- **Confirmational Monitoring.** To evaluate the long-term effectiveness of the cleanup activities, or once cleanup standards or other performance standards have been attained.

5.1 PROTECTION MONITORING

In accordance with the Site-specific HASP, SoundEarth monitored ambient air during excavation, shoring, and drilling activities for petroleum hydrocarbons in the breathing zone of personnel and equipment operators, and at the boundaries of the Property. Air monitoring was conducted using a PID and benzene colorimetric gas detection tubes. Air monitoring logs during the excavation activities are included in Appendix G.

Results of air monitoring indicated elevated PID readings that exceeded the limits set in the Site-Specific HASP. Due to the strong odors and elevated PID readings, workers were required to don respirators while working within the exclusion zone.

Although high PID readings were observed, the Occupational Safety and Health Administration (OSHA) the National Institute for Occupational Safety and Health (NIOSH) do not have exposure limits for gasoline. No benzene was detected with the gas detection tubes during the duration of the excavation; therefore, the ambient air on the Site did not exceed the applicable OSHA permissible exposure limits or the NIOSH recommended exposure limits during active excavation of PCS on the Site.

5.2 PERFORMANCE MONITORING

Performance monitoring included the collection of soil samples from the sidewalls and floor of the redevelopment excavation area, soil samples collected during excavation and removal of any previously unidentified contamination, and groundwater samples collected from the dewatering system. A quarterly groundwater monitoring program will be implemented to evaluate the effectiveness of the cleanup activities.

5.2.1 Soil

Performance monitoring and field screening of soil was conducted during the remedial excavation activities to direct advancement of the excavation and demonstrate that MTCA Method A CULs had been met. A SoundEarth geologist observed the excavation of identified impacted and contaminated soil during the excavation activities and performed field screening of the non-impacted soil areas to confirm the lack of notable impacts. Field screening included observation of the soil for discoloration, sheen, and odors. In addition to physical observations, a PID was used to qualitatively measure volatile organic vapors in the soil.

Performance soil samples were collected to validate that the performance criteria have been met at the designated points of compliance. Samples were collected at designated 5-foot vertical horizons within each 24-foot by 24-foot soil management grid. Performance sample locations are depicted on Figures 9 through 12.

Soil samples were collected by a SoundEarth geologist and transferred directly to laboratory prepared sample containers labeled with unique laboratory identification numbers. The containers were placed in an iced cooler and transported for laboratory analysis to F&BI, under standard chain-of-custody protocols. Samples were analyzed for one or more of the following: DRPH and ORPH by Method NWTPH-Dx, GRPH by Method NWTPH-Gx, and BTEX by EPA Method 8021B. Select samples were analyzed for forensic fuel fingerprints.

5.2.2 Groundwater

Performance groundwater samples were collected during the dewatering system operation to determine whether MTCA Method A CULs have been met. Samples were collected from each pore volume removed in order to estimate the mass recovered during system operations. Performance samples are presented in Appendix C, Table C-4.

Performance groundwater monitoring includes quarterly or semi-annual groundwater monitoring of monitoring wells, MW104, and MW107 through MW110, with periodic monitoring of off-Property wells MW103 and MW105 for up to 5 years to evaluate the reduction of dissolved-phase petroleum hydrocarbons in groundwater across the Site.

Performance monitoring is required until groundwater concentrations meet the MTCA Method A cleanup level for COCs.

5.3 CONFIRMATIONAL MONITORING

Confirmation sampling included the collection of soil samples from the final extent of the redevelopment excavation area and groundwater sampling after the completion of the cleanup activities.

5.3.1 Soil Confirmation Sampling

Confirmation samples were collected from the sidewalls and excavation floor of each 24-foot by 24-foot grid in 5-foot vertical increments. Analytical results for the soil samples collected from the final limits of the remedial excavation areas are presented in Tables 3 through 5 and depicted in Figures 9 through 12. Laboratory analytical results are included in Appendix H.

- Concentrations of COCs in all the soil samples collected from the floor of the remedial excavation area were below the laboratory reporting limits and/or the applicable MTCA Method A cleanup levels. Final bottom confirmation samples are highlighted in yellow in Table 3 and shown on Figure 12.
- Concentrations of COCs in all the soil samples collected from the south and western extents of the SKS Shell excavation were below the laboratory reporting limits and/or the applicable MTCA Method A cleanup levels.
- Three samples collected from the north sidewall (Southwest Alaska Street) contained concentrations of GRPH and/or benzene that exceeded the applicable MTCA Method A cleanup levels. Two samples were located at 245 feet NAVD88 within grids A1 and B1, and one sample was located in at 250 feet NAVD88 in grid C1. Sidewall samples collected along the northern sidewall were collected behind the shoring wall, in soil located outside the Property boundary.
- Four samples collected from the east sidewall (Fauntleroy Way Southwest) contained concentrations of GRPH and/or DRPH that exceeded the applicable MTCA Method A cleanup levels. Samples in grid A2 at 245 and 250 feet NAVD88 contained concentrations of GRPH. A sample in grid A1 at 250 feet NAVD88 contained concentrations of GRPH, and a sample in grid A3 at 245 feet NAVD88 contained concentrations of GRPH and DRPH. Sidewall samples collected along the eastern sidewall were collected behind the shoring wall, in soil located outside the Property boundary.
- Confirmation soil samples collected from the sidewalls and immediately below UST05, UST06, and UST07 indicated concentrations of COCs below the applicable cleanup levels.
- Confirmation soil sampling conducted during excavation and removal of any previously unidentified contamination indicated that all soil with concentrations of COCs above applicable remediation levels was removed from the SKS Shell Property.

5.3.2 Groundwater Confirmation Sampling

Confirmational groundwater sampling will commence once performance monitoring indicates that concentrations of COCs in groundwater are below the applicable MTCA Method A cleanup levels beneath the SKS Shell Property and the adjoining ROWs. Once the results from four sequential quarters of groundwater monitoring indicate that concentrations of COCs are less than the MTCA Method A cleanup levels, the groundwater will be considered to meet the remedial action objective in the CAP.

6.0 PLANNED ACTIONS

Post excavation groundwater monitoring events are being completed quarterly to evaluate current groundwater concentrations and trends. The remaining monitoring well network on the SKS Shell Property is depicted on Figure 15. Quarterly groundwater monitoring will be conducted to monitor the effectiveness of the cleanup activities completed to date and the effectiveness of the chemical oxidation injections, if necessary. The existing network of groundwater monitoring wells around the perimeter of the SKS Shell Property, MW104, MW105, MW108, MW109, and MW110, will be sampled quarterly or semi-annually for up to 5 years to evaluate the reduction of dissolved-phase petroleum hydrocarbons in groundwater across the Site. If a chemical oxidation injection event is required, the groundwater conditions will be evaluated for 2 years, or 8 quarters, after the injection to determine whether a second chemical oxidation injection is required to address residual soil and groundwater contamination beneath the ROWs. Groundwater sampling will be considered complete once concentrations of COCs are below the applicable MTCA Method A cleanup levels for four sequential quarters. Following completion of the final groundwater monitoring event, a Closure Report will be prepared.

6.1 CONTINGENCY CHEMICAL OXIDATION INJECTION PLAN

SoundEarth will consider a chemical oxidation injection if concentrations of COCs persist at levels indicating that attenuation will not occur within two years, as set forth in the CAP. The determination of the necessity for the chemical oxidation injection will be evaluated with Ecology. If necessary, the chemical oxidation injections will treat the remaining contaminated soil and groundwater underneath the Fautleroy Way Southwest and Southwest Alaska Street ROWs.

Sodium persulfate activated by a 10 percent solution of hydrogen peroxide will be injected into each of the eight remediation wells and MW104. Approximately 300 gallons or two batches will be injected into each well. A second contingency injection is proposed if COCs in compliance monitoring wells remain above the MTCA Method A cleanup levels.

7.0 CONCLUSIONS

Cleanup activities were performed under the PPCD in accordance with the Ecology-approved CAP. All cleanup activities have been performed in compliance with MTCA under the direct supervision of Ecology. The following remedial action objectives have been accomplished:

- All soil on the SKS Shell Property containing concentrations of COCs above the MTCA Method A cleanup level was excavated and removed. Residual GRPH and BTEX contamination detected along the sidewalls is located outside the SKS Shell Property boundary to the east and north. All cleanup activities regarding soil contamination on and beneath the SKS Shell Property have been

performed in full compliance with the CAP and PPCD. No further cleanup activities associated with soil contamination on or beneath the SKS Shell Property are necessary or required.

- Approximately 5 groundwater pore volumes in the treatment area, approximately of 135,780 gallons of groundwater, were pumped from the dewatering system during the excavation activities. Based on performance sampling data, approximately 4 pounds of GRPH and 0.18 pounds of benzene were removed with the dewatering system.
- A chemical vapor and water barrier was installed along the Fautleroy Way Southwest and Southwest Alaska Street ROWs to prevent vapor intrusion on the Property and recontamination of on-Property soil and groundwater from the impacts that remain beneath the ROWs beyond the Property boundary.

Based on data generated during previous investigations and prior to the source removal and dewatering activities at the Property, impacts to soil and groundwater remain beneath the Fautleroy Way Southwest and Southwest Alaska Street ROWs, beyond the SKS Shell Property boundary. As set forth in the CAP (SoundEarth 2014b), if post excavation groundwater concentrations exceed the MTCA Method A cleanup levels), a chemical oxidation injection will be conducted to address the residual soil and groundwater contamination beneath the adjacent ROWs. Performance groundwater monitoring will be conducted after the injection event.

8.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We do not warrant and are not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the use of segregated portions of this report.

9.0 REFERENCES

SoundEarth Strategies, Inc. (SoundEarth). 2014a. *Underground Storage Tank Removal and Assessment Report, Alaska Street Texaco/SKS Shell, 3901 Southwest Alaska Street, Seattle, Washington*. January 3.

_____. 2014b. *Cleanup Action Plan, SKS Shell Property, 3901 Southwest Alaska Street, Seattle, Washington*. June 16.

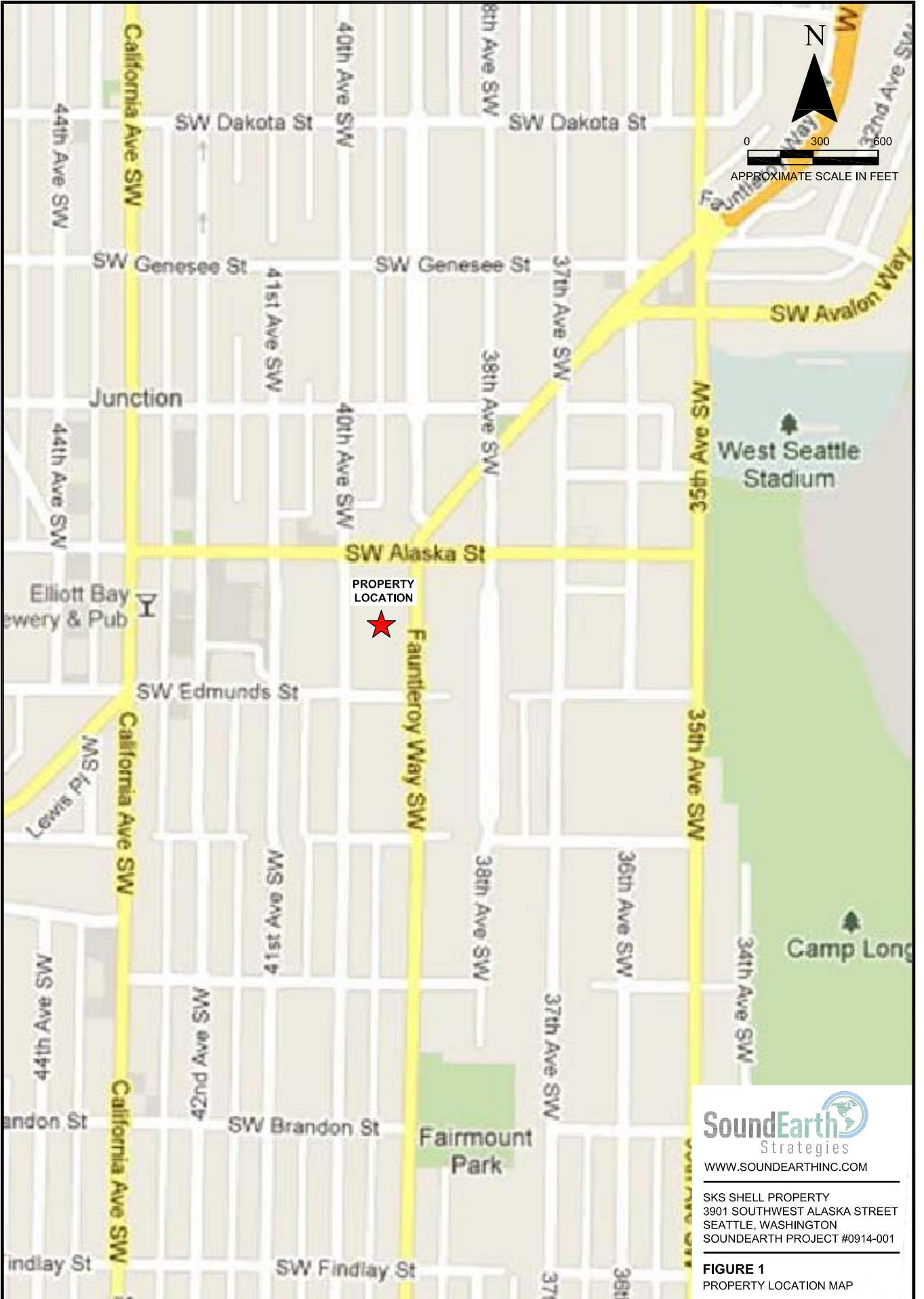
_____. 2014c. *Remedial Investigation and Feasibility Study Report, SKS Shell Property, 3901 Southwest Alaska Street, Seattle, Washington*. June 24.

_____. 2014d. *Phase I Environmental Site Assessment, The Whittaker Property, 4755 Fauntleroy Way Southwest, Seattle, Washington*. August 28.

_____. 2015. *Construction Management Plan, The Whittaker Property, Fauntleroy Way SW and SW Alaska Street, Seattle, Washington*. January 2.

Washington State Department of Ecology (Ecology). 2003. *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*. Publication No. 90-52. Revised May.

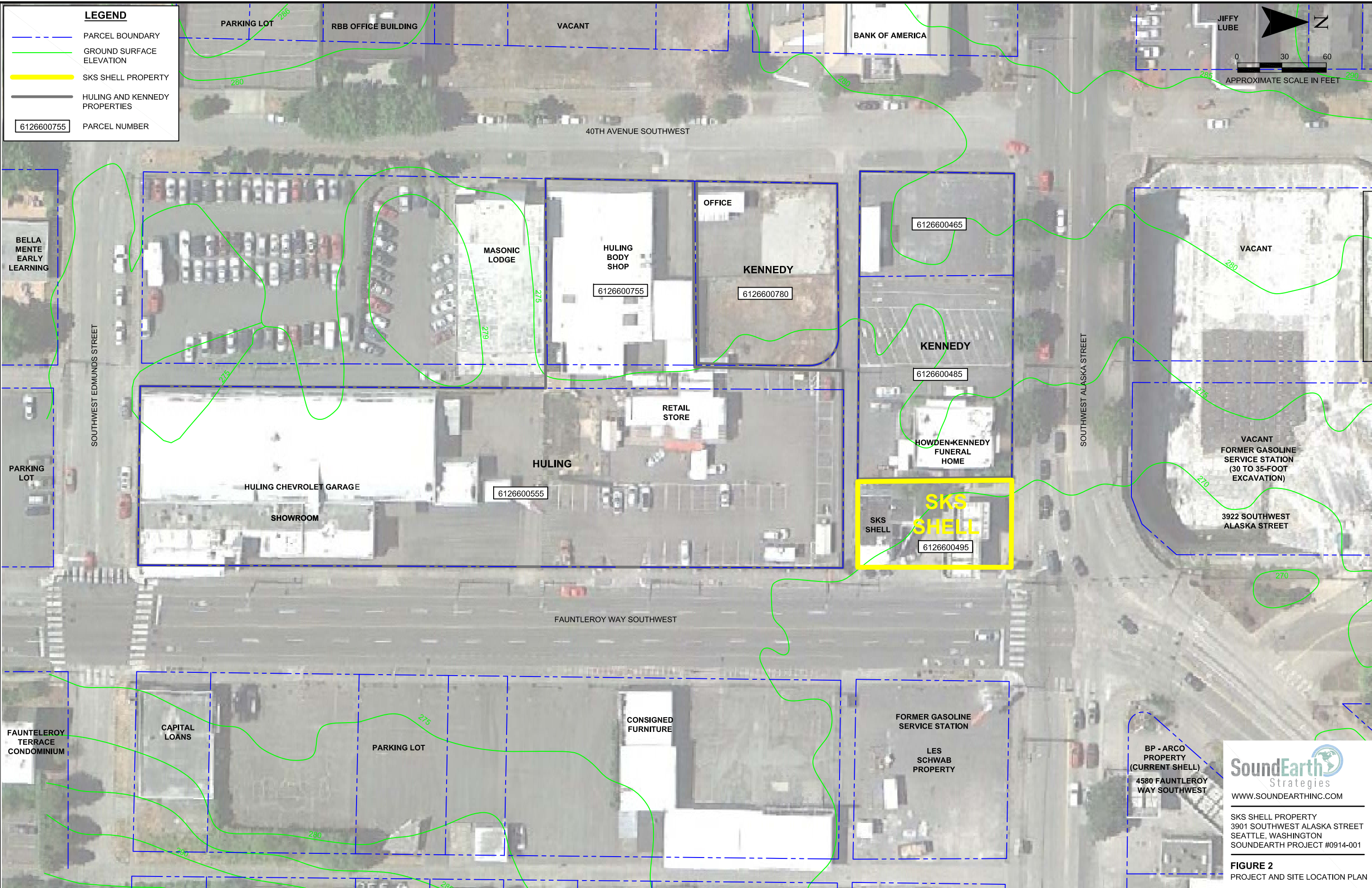
FIGURES



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FIGURE 1
PROPERTY LOCATION MAP



LEGEND

- PARCEL BOUNDARY
- GROUND SURFACE ELEVATION
- SKS SHELL PROPERTY
- HULING AND KENNEDY PROPERTIES
- PARCEL NUMBER

JIFFY LUBE

APPROXIMATE SCALE IN FEET

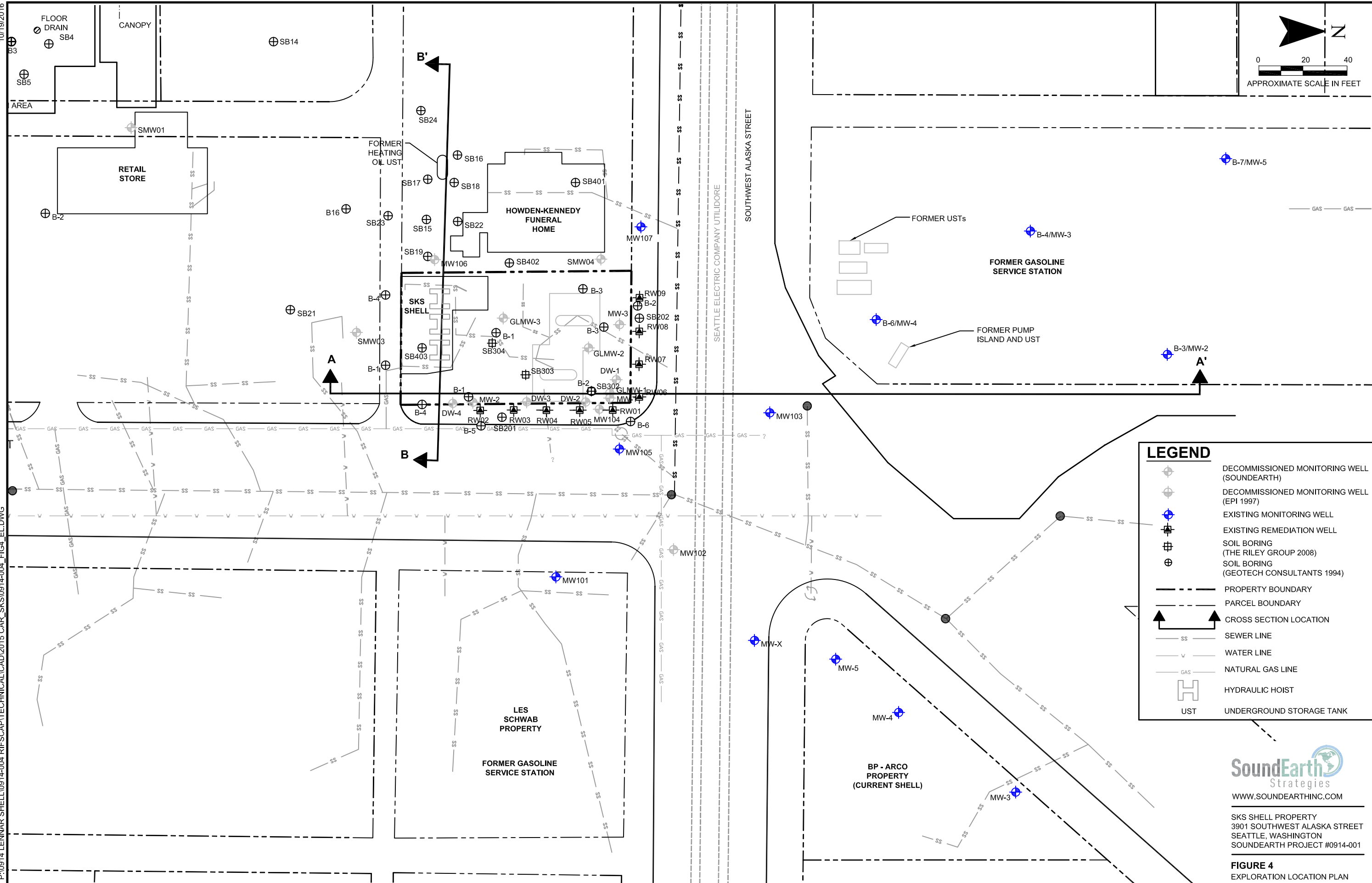
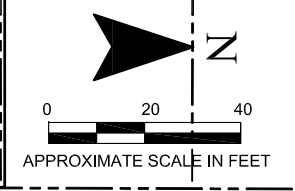
BP - ARCO
PROPERTY
(CURRENT SHELL)
4580 FAUNTLEROY
WAY SOUTHWEST

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FIGURE 2
PROJECT AND SITE LOCATION PLAN

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 P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG4_EL.DWG



LEGEND

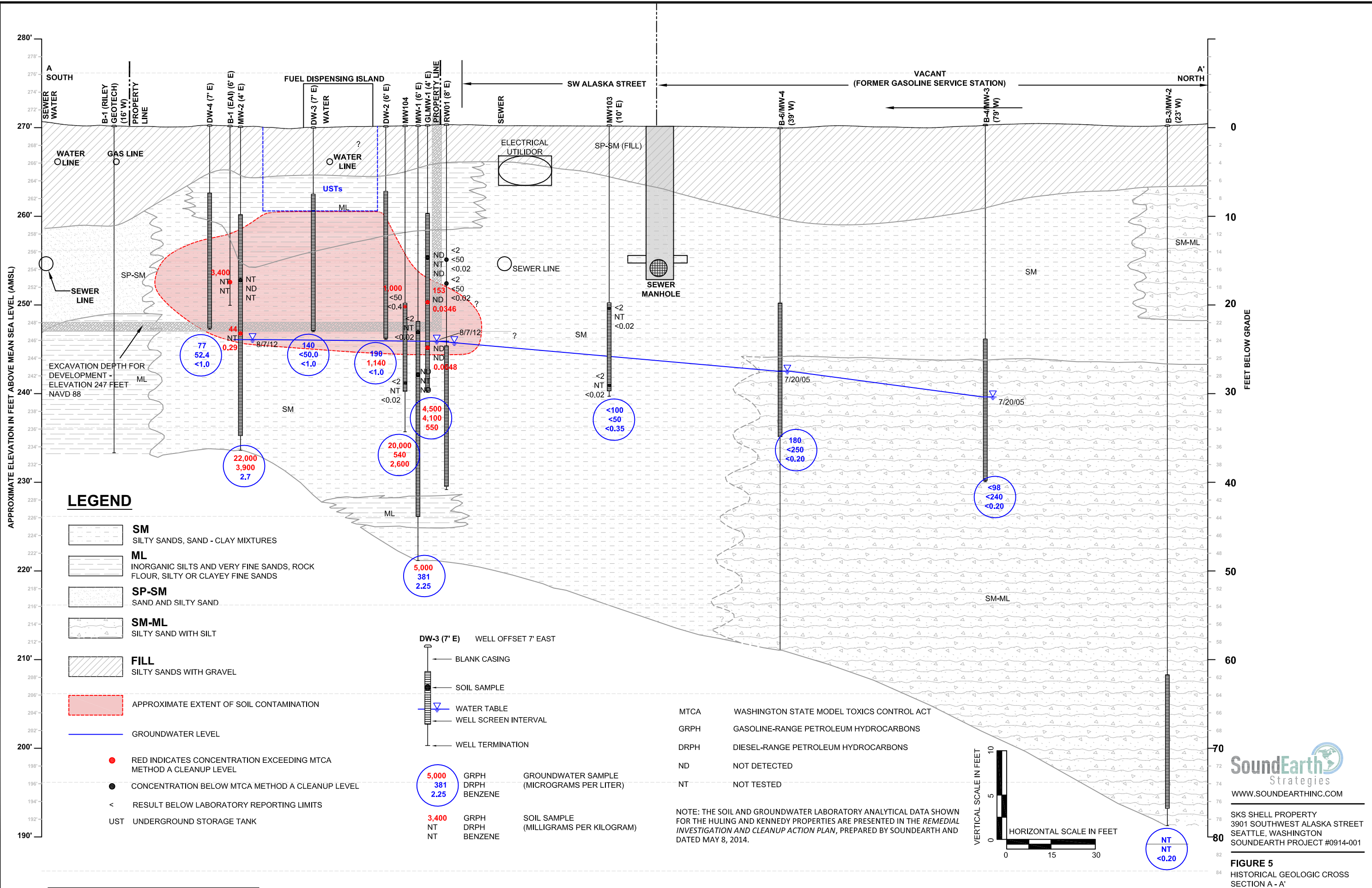
- DECOMMISSIONED MONITORING WELL (SOUNDEARTH)
- DECOMMISSIONED MONITORING WELL (EPI 1997)
- EXISTING MONITORING WELL
- EXISTING REMEDIATION WELL
- SOIL BORING (THE RILEY GROUP 2008)
- SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- CROSS SECTION LOCATION
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- HYDRAULIC HOIST
- UST UNDERGROUND STORAGE TANK

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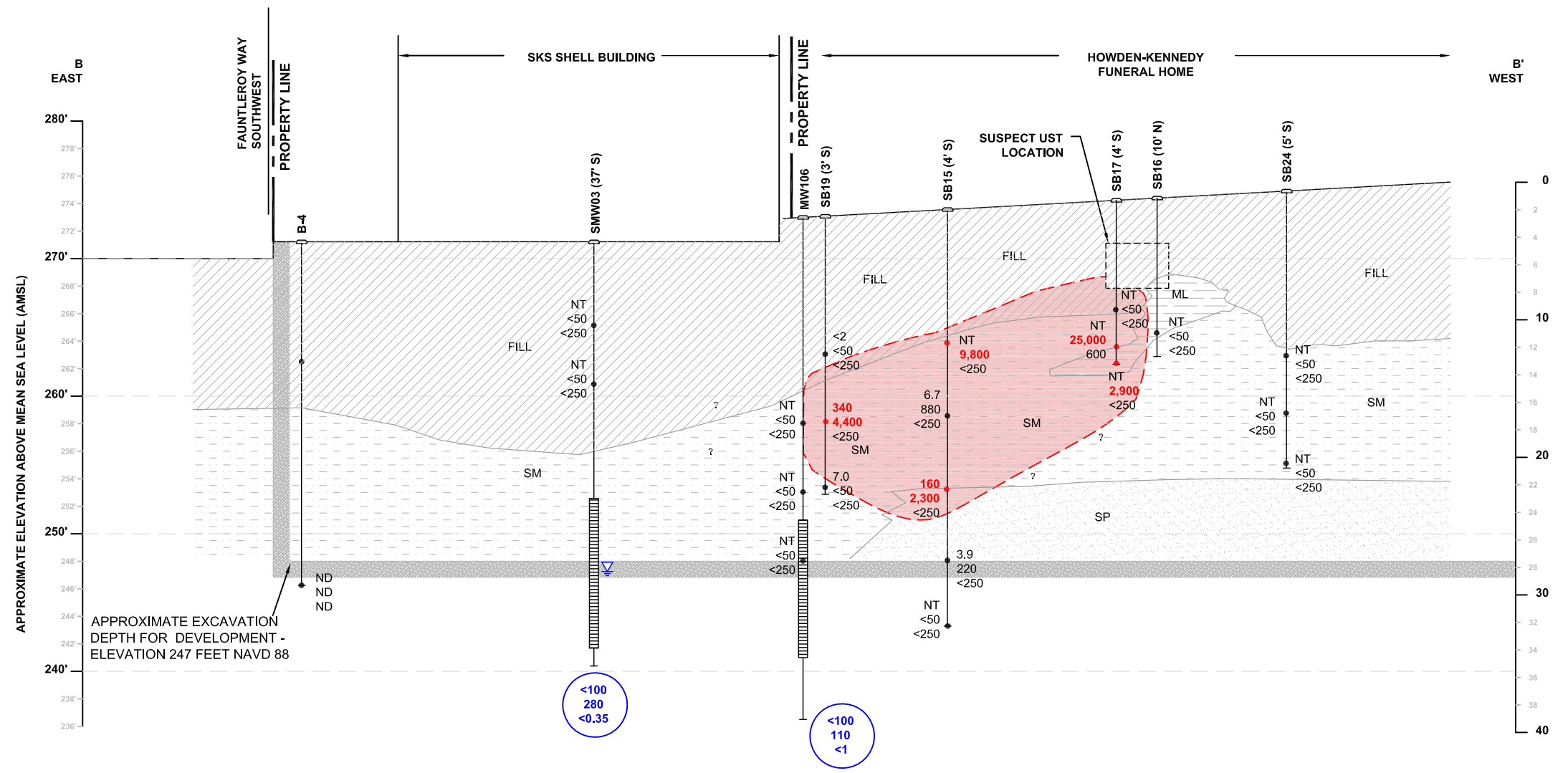
FIGURE 4
 EXPLORATION LOCATION PLAN

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015_CAR_SKS\0914-004_FIG5_A-A.DWG



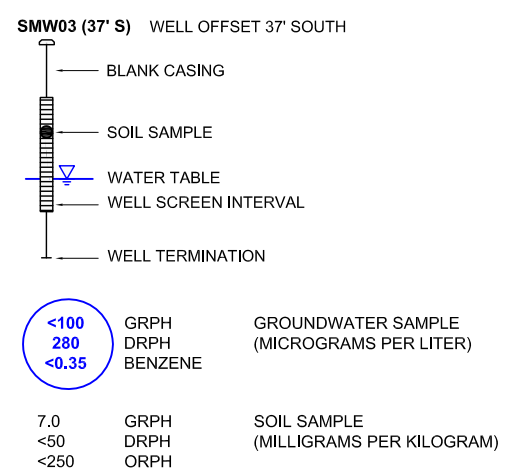
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FIGURE 5
HISTORICAL GEOLOGIC CROSS SECTION A - A'

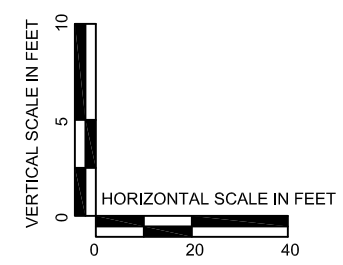


LEGEND

- SM**
SILTY SANDS, SAND - CLAY MIXTURES
- ML**
INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS
- SP**
SAND AND SILTY SAND
- FILL**
SILTY SANDS WITH GRAVEL
- APPROXIMATE EXTENT OF SOIL CONTAMINATION**



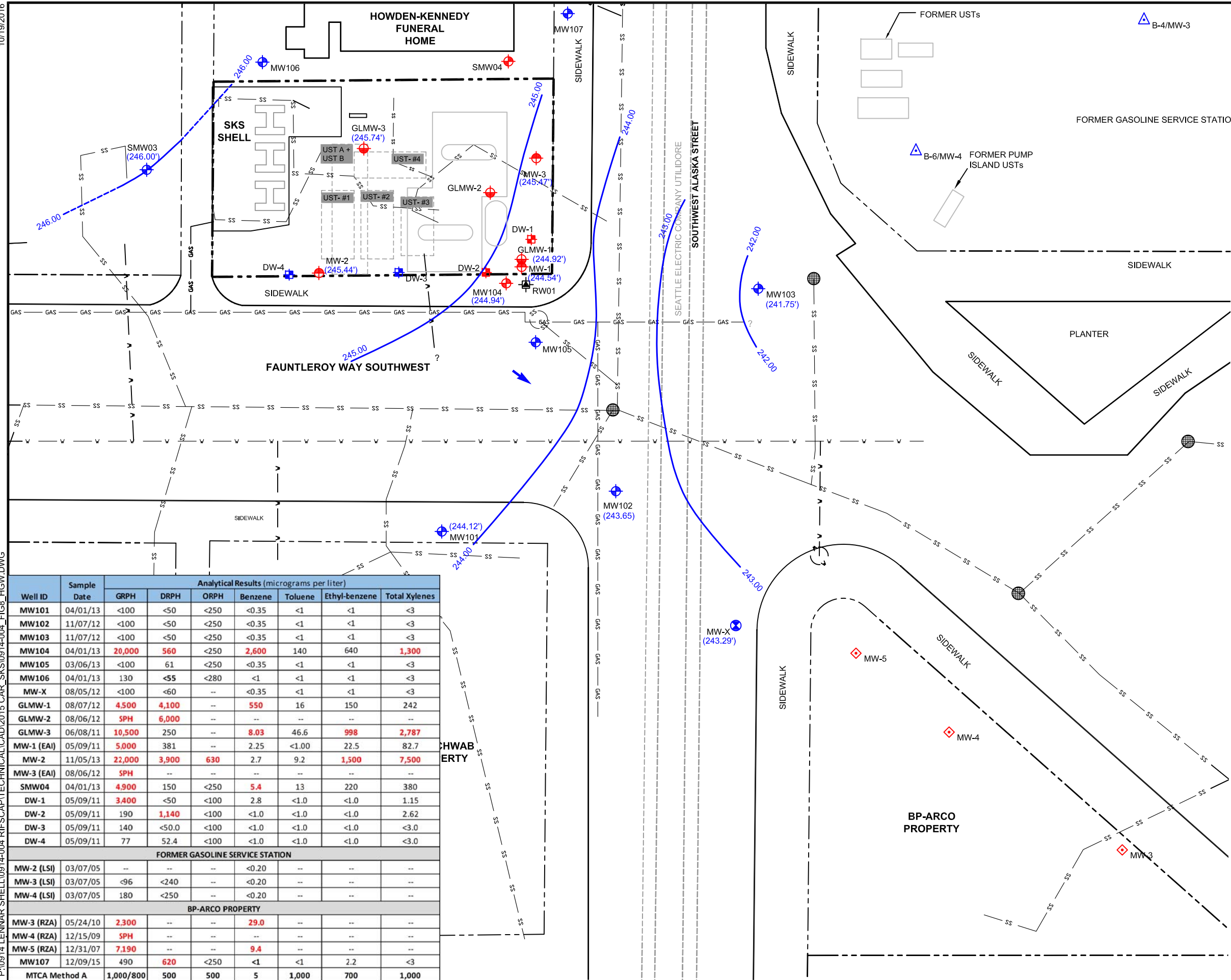
- RED INDICATES CONCENTRATION EXCEEDING MTCA METHOD A CLEANUP LEVEL
- CONCENTRATION BELOW MTCA METHOD A CLEANUP LEVEL
- < RESULT BELOW LABORATORY REPORTING LIMITS
- UST UNDERGROUND STORAGE TANK
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
- GRPH GASOLINE-RANGE PETROLEUM HYDROCARBONS
- DRPH DIESEL-RANGE PETROLEUM HYDROCARBONS
- ORPH OIL-RANGE PETROLEUM HYDROCARBONS
- NT NOT TESTED
- ND NOT DETECTED



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FIGURE 6
HISTORICAL GEOLOGIC CROSS SECTION B-B'

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LEGEND

- ◆ MW104 MONITORING WELL (SOUNDEARTH 2012)
- ◆ GLMW-3 MONITORING WELL (G LOGICS 2011)
- ▲ B-6/MW-4 MONITORING WELL (LSI ADAPT INC 2005)
- ◆ DW-4 EXTRACTION WELL (ALISTO 1997)
- ◆ MW-3 MONITORING WELL (EAI 1995)
- ◆ MW-5 MONITORING WELL (RZA AGRA INC 1993)
- ◆ MW-X MONITORING WELL (ARCADIS 2012)
- ◆ RW01 REMEDIATION WELL (SOUNDEARTH 2013)
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SS SEWER LINE
- W WATER LINE
- GAS NATURAL GAS LINE
- HISTORICAL UTILITY LINES
- H HYDRAULIC HOIST
- UST UNDERGROUND STORAGE TANK
- GROUNDWATER FLOW DIRECTION
- FORMER UNDERGROUND STORAGE TANK
- 1.00-FOOT-INTERVAL GROUNDWATER CONTOUR
- (241.75') GROUNDWATER SURFACE ELEVATION (NOVEMBER 7, 2012)
- EAI ENVIRONMENTAL ASSOCIATES, INC.
- RED DENOTES CONCENTRATIONS EXCEEDING MTCA METHOD A CLEANUP LEVELS
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
- GRPH GASOLINE-RANGE PETROLEUM HYDROCARBONS
- DRPH DIESEL-RANGE PETROLEUM HYDROCARBONS
- ORPH OIL-RANGE PETROLEUM HYDROCARBONS
- < RESULT BELOW LABORATORY REPORTING LIMIT
- NOT ANALYZED
- SPH SEPARATE-PHASE HYDROCARBONS

| Well ID | Sample Date | Analytical Results (micrograms per liter) | | | | | | |
|---------------------------------|-------------|---|-------|------|---------|---------|---------------|---------------|
| | | GRPH | DRPH | ORPH | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
| MW101 | 04/01/13 | <100 | <50 | <250 | <0.35 | <1 | <1 | <3 |
| MW102 | 11/07/12 | <100 | <50 | <250 | <0.35 | <1 | <1 | <3 |
| MW103 | 11/07/12 | <100 | <50 | <250 | <0.35 | <1 | <1 | <3 |
| MW104 | 04/01/13 | 20,000 | 560 | <250 | 2,600 | 140 | 640 | 1,300 |
| MW105 | 03/06/13 | <100 | 61 | <250 | <0.35 | <1 | <1 | <3 |
| MW106 | 04/01/13 | 130 | <55 | <280 | <1 | <1 | <1 | <3 |
| MW-X | 08/05/12 | <100 | <60 | -- | <0.35 | <1 | <1 | <3 |
| GLMW-1 | 08/07/12 | 4,500 | 4,100 | -- | 550 | 16 | 150 | 242 |
| GLMW-2 | 08/06/12 | SPH | 6,000 | -- | -- | -- | -- | -- |
| GLMW-3 | 06/08/11 | 10,500 | 250 | -- | 8.03 | 46.6 | 998 | 2,787 |
| MW-1 (EAI) | 05/09/11 | 5,000 | 381 | -- | 2.25 | <1.00 | 22.5 | 82.7 |
| MW-2 | 11/05/13 | 22,000 | 3,900 | 630 | 2.7 | 9.2 | 1,500 | 7,500 |
| MW-3 (EAI) | 08/06/12 | SPH | -- | -- | -- | -- | -- | -- |
| SMW04 | 04/01/13 | 4,900 | 150 | <250 | 5.4 | 13 | 220 | 380 |
| DW-1 | 05/09/11 | 3,400 | <50 | <100 | 2.8 | <1.0 | <1.0 | 1.15 |
| DW-2 | 05/09/11 | 190 | 1,140 | <100 | <1.0 | <1.0 | <1.0 | 2.62 |
| DW-3 | 05/09/11 | 140 | <50.0 | <100 | <1.0 | <1.0 | <1.0 | <3.0 |
| DW-4 | 05/09/11 | 77 | 52.4 | <100 | <1.0 | <1.0 | <1.0 | <3.0 |
| FORMER GASOLINE SERVICE STATION | | | | | | | | |
| MW-2 (LSI) | 03/07/05 | -- | -- | -- | <0.20 | -- | -- | -- |
| MW-3 (LSI) | 03/07/05 | <96 | <240 | -- | <0.20 | -- | -- | -- |
| MW-4 (LSI) | 03/07/05 | 180 | <250 | -- | <0.20 | -- | -- | -- |
| BP-ARCO PROPERTY | | | | | | | | |
| MW-3 (RZA) | 05/24/10 | 2,300 | -- | -- | 29.0 | -- | -- | -- |
| MW-4 (RZA) | 12/15/09 | SPH | -- | -- | -- | -- | -- | -- |
| MW-5 (RZA) | 12/31/07 | 7,190 | -- | -- | 9.4 | -- | -- | -- |
| MW107 | 12/09/15 | 490 | 620 | <250 | <1 | <1 | 2.2 | <3 |
| MTCA Method A | | 1,000/800 | 500 | 500 | 5 | 1,000 | 700 | 1,000 |

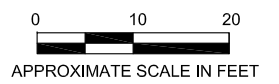
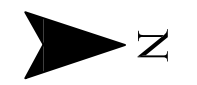
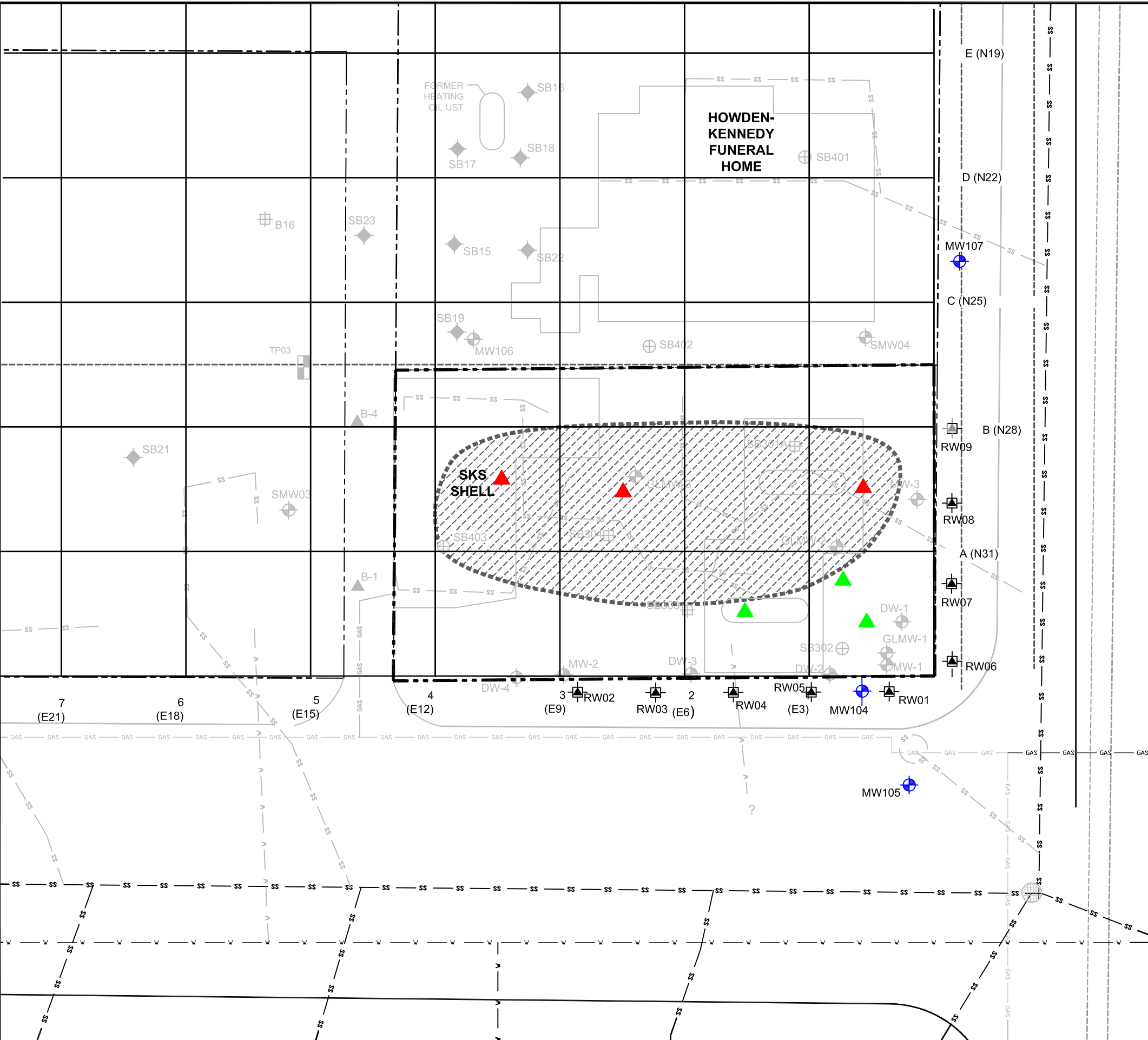


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FIGURE 8
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND GROUNDWATER CONTOUR MAP

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG9_PERF_260-270.DWG



LEGEND

- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- PERFORMANCE/ CONFIRMATION SOIL SAMPLE
- SB29 GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEI-6 GEOTECHNICAL BORING (GEOENGINEERS 2012)
- B-4 GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- B16 SOIL BORING (THE RILEY GROUP 2008)
- B-15 SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- REMEDIAL EXCAVATION AREA
- AST ABOVEGROUND STORAGE TANK
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEAN UP LEVEL
- NAVD 88 NORTH AMERICAN VERTICAL DATUM 1988
- UST UNDERGROUND STORAGE TANK
- (E57) REFERENCE TO PILE NUMBER/ LOCATION
- 24' x24' SOIL SAMPLING GRID
- ABOVE MTCA METHOD A
- BELOW MTCA METHOD A

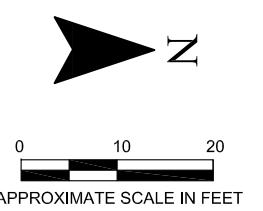
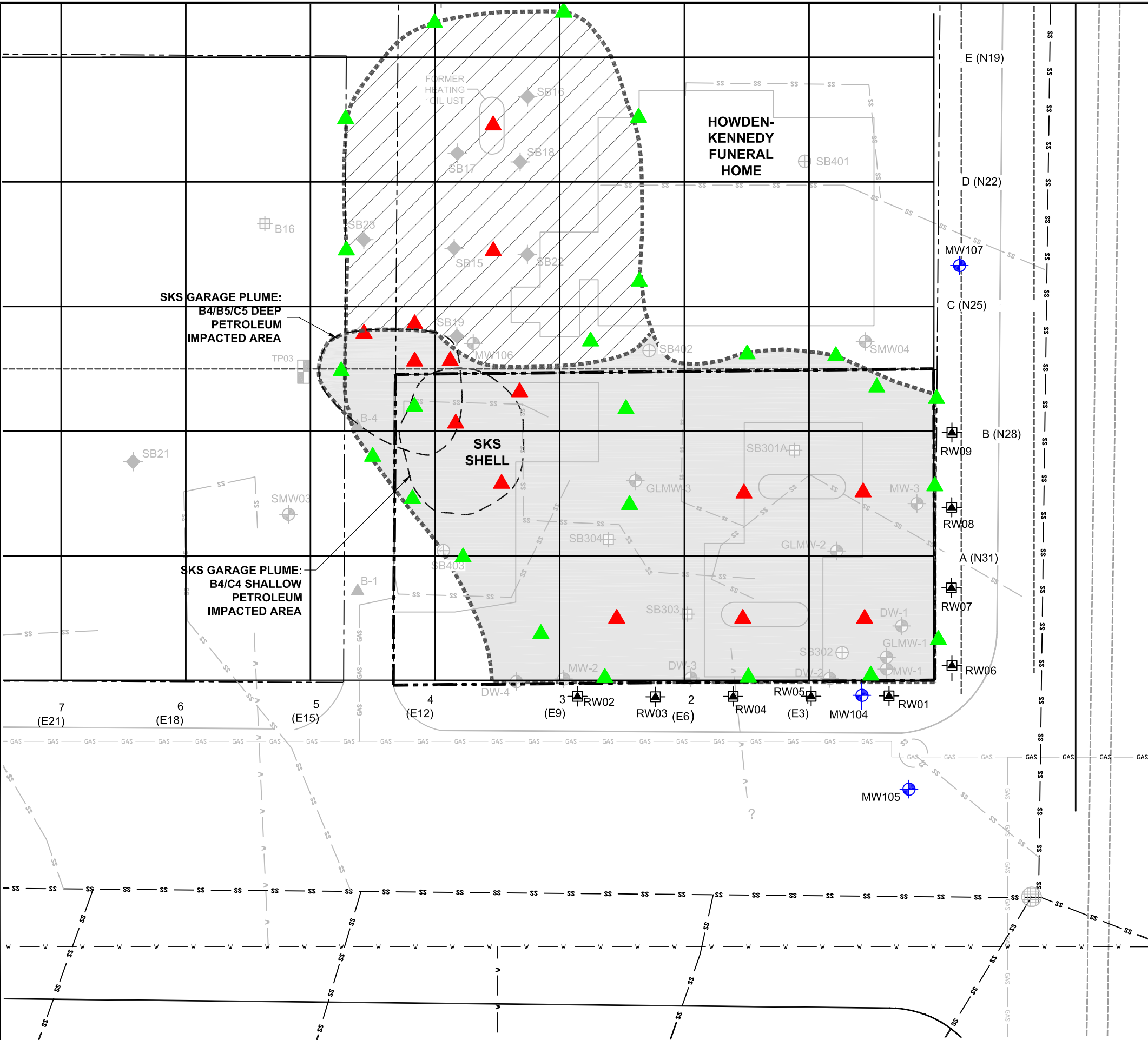
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FIGURE 9
PERFORMANCE SAMPLE LOCATIONS -
260 TO 270 FEET NAVD 88

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG10_PERF_255.DWG



LEGEND

- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- PERFORMANCE/ CONFIRMATION SOIL SAMPLE
- GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEOTECHNICAL BORING (GEOENGINEERS 2012)
- GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- SOIL BORING (THE RILEY GROUP 2008)
- SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- HYDRAULIC HOIST
- REMEDIAL EXCAVATION AREA (SKS PROPERTY PLUME)
- REMEDIAL EXCAVATION AREA (KENNEDY PROPERTY PLUME)
- AST
- MTCA
- NAVD 88
- UST
- (E57)
- 24' x24' SOIL SAMPLING GRID
- ABOVE MTCA METHOD A
- BELOW MTCA METHOD A

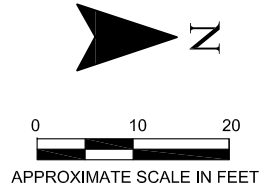
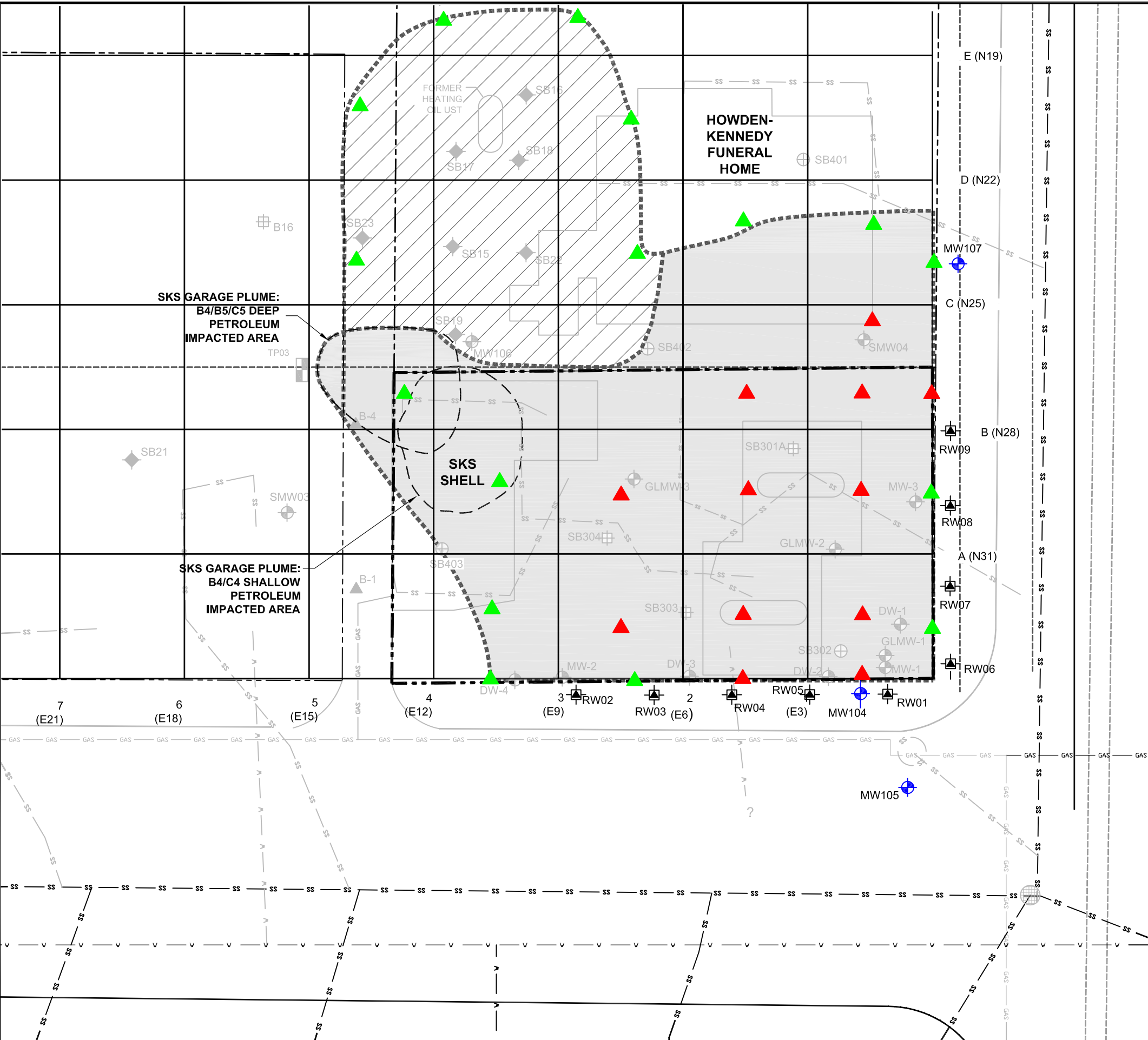
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FIGURE 10
 PERFORMANCE SAMPLE
 LOCATIONS - 255 FEET NAVD 88

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG11_PERF_250.DWG



LEGEND

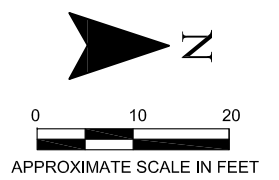
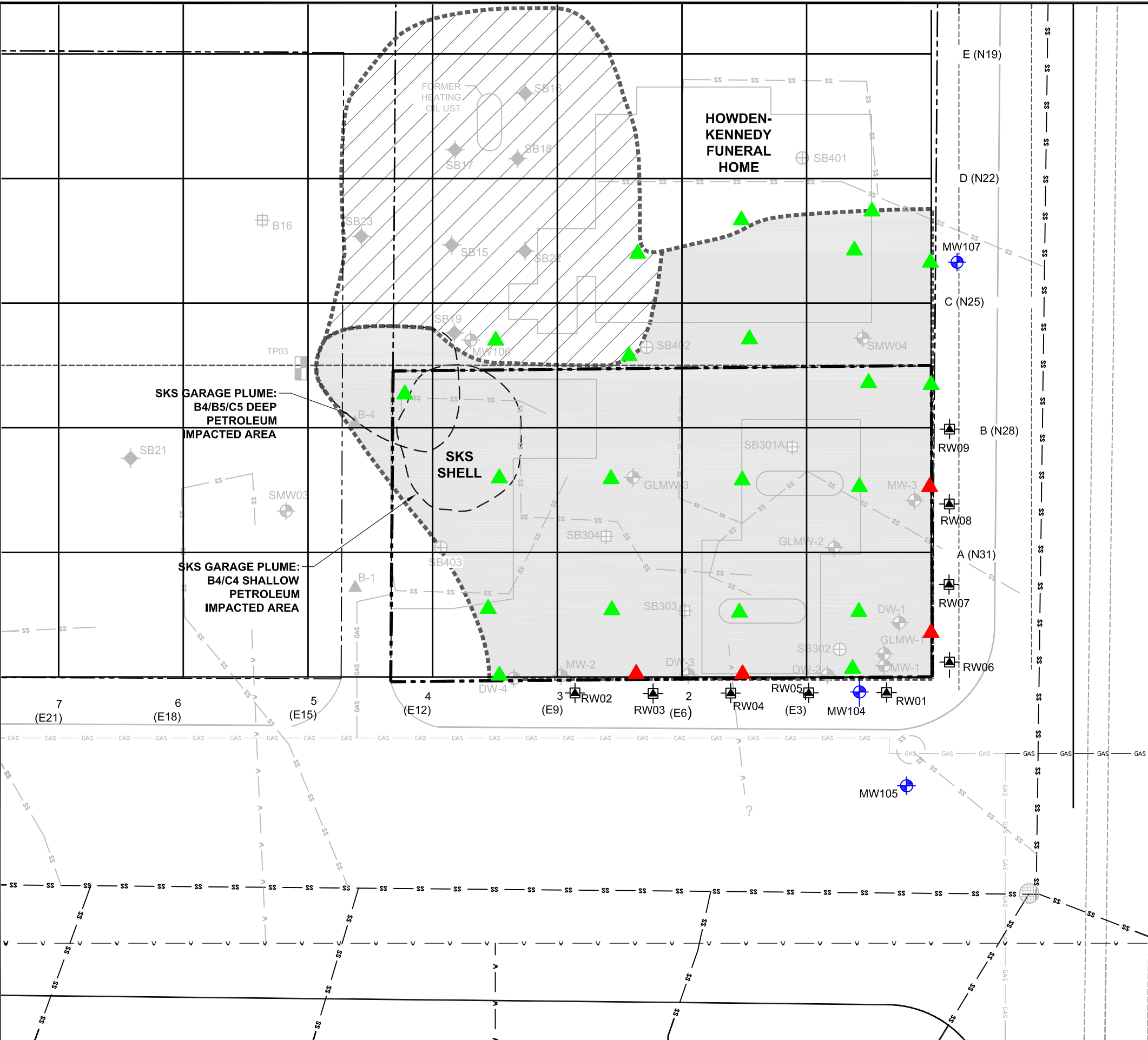
- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- PERFORMANCE/ CONFIRMATION SOIL SAMPLE
- GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEOTECHNICAL BORING (GEOENGINEERS 2012)
- GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- SOIL BORING (THE RILEY GROUP 2008)
- SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- REMEDIAL EXCAVATION AREA (SKS PROPERTY PLUME)
- REMEDIAL EXCAVATION AREA (KENNEDY PROPERTY PLUME)
- AST
- WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEAN UP LEVEL
- NAVD 88
- UST
- REFERENCE TO PILE NUMBER/ LOCATION
- 24' x 24' SOIL SAMPLING GRID
- ABOVE MTCA METHOD A
- BELOW MTCA METHOD A

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FIGURE 11
 PERFORMANCE SAMPLE
 LOCATIONS - 250 FEET NAVD 88

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG12_PERF_245.DWG



LEGEND

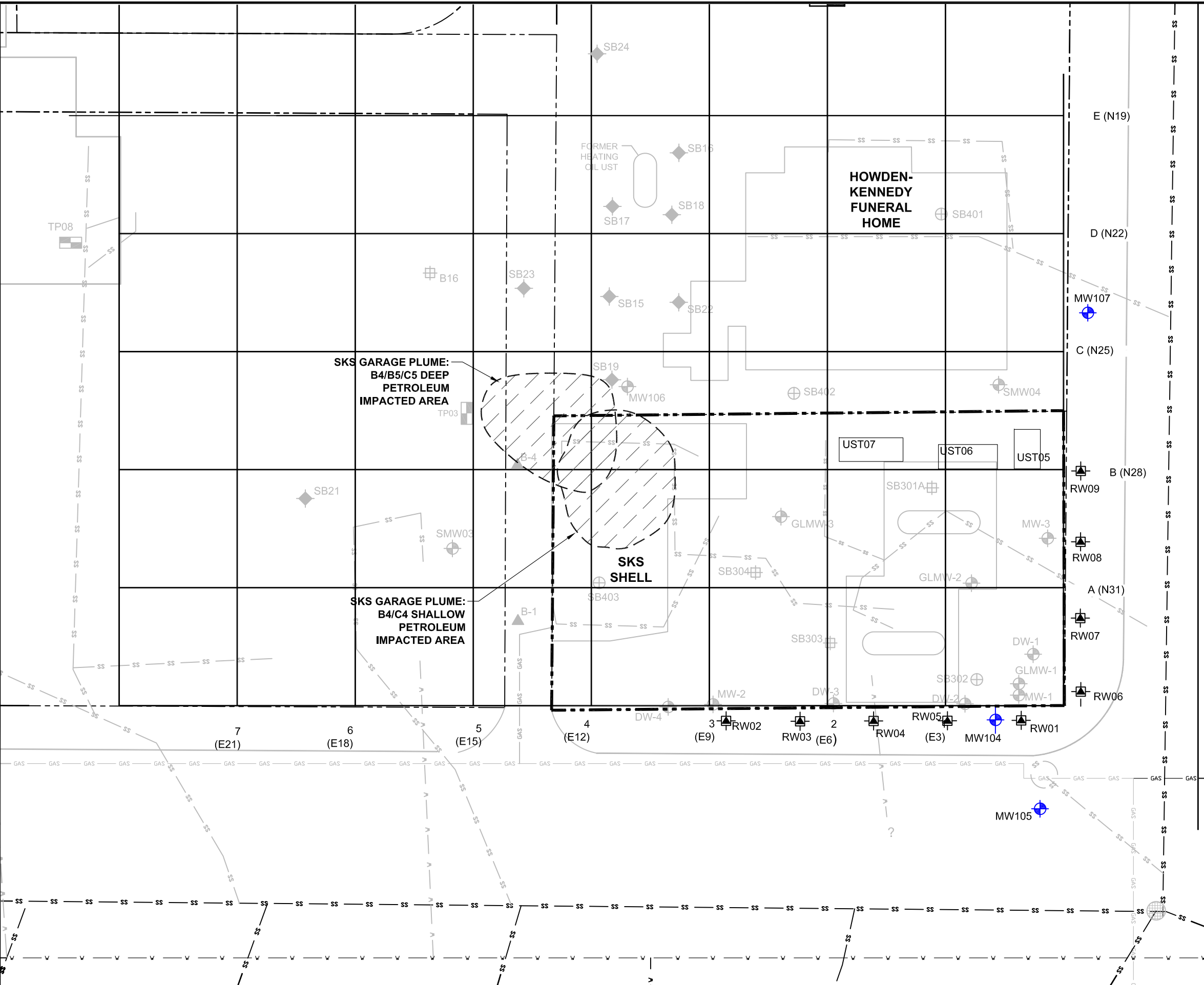
- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- PERFORMANCE/ CONFIRMATION SOIL SAMPLE
- SB29 GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEL-6 GEOTECHNICAL BORING (GEOENGINEERS 2012)
- B-4 GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- B-16 SOIL BORING (THE RILEY GROUP 2008)
- B-15 SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- REMEDIAL EXCAVATION AREA (SKS PROPERTY PLUME)
- REMEDIAL EXCAVATION AREA (KENNEDY PROPERTY PLUME)
- ABOVEGROUND STORAGE TANK
- WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEAN UP LEVEL
- NORTH AMERICAN VERTICAL DATUM 1988
- UNDERGROUND STORAGE TANK REFERENCE TO PILE NUMBER/ LOCATION
- 24' x24' SOIL SAMPLING GRID
- ABOVE MTCA METHOD A
- BELOW MTCA METHOD A

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FIGURE 12
 PERFORMANCE SAMPLE LOCATIONS
 - FINAL EXTENT

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LEGEND

- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEOTECHNICAL BORING (GEOENGINEERS 2012)
- GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- SOIL BORING (THE RILEY GROUP 2008)
- SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- ABOVEGROUND STORAGE TANK
- WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEAN UP LEVEL
- NORTH AMERICAN VERTICAL DATUM 1988
- UNDERGROUND STORAGE TANK
- REFERENCE TO PILE NUMBER/ LOCATION

24' x 24' SOIL SAMPLING GRID

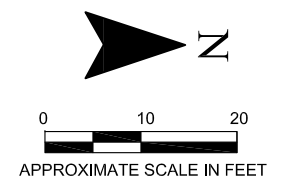
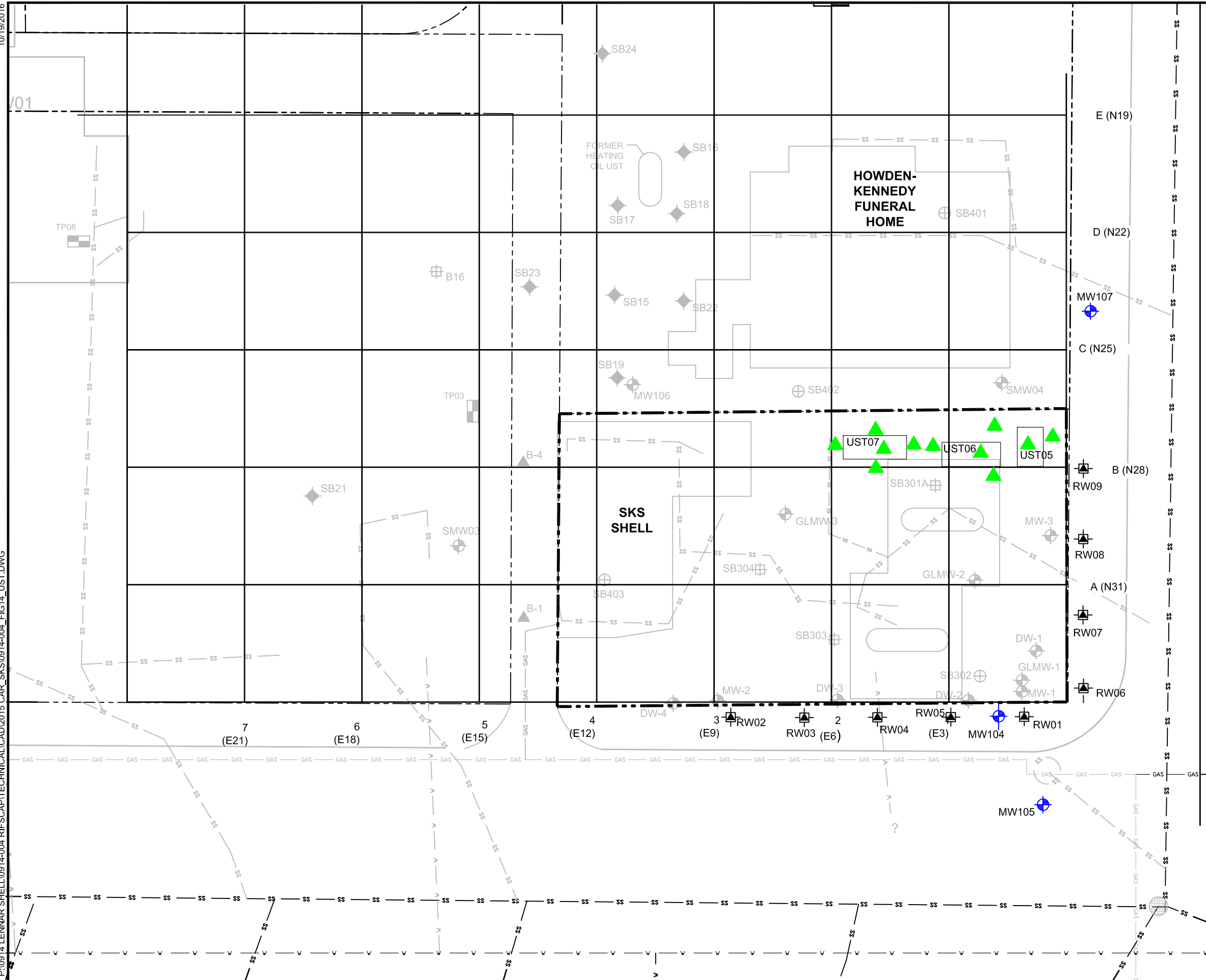
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FIGURE 13
 FIELD DISCOVERIES

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P:\0914 LENNAR SHELL\0914-004 RIFSCAP\TECHNICAL\CAD\2015 CAR_SKS\0914-004_FIG14_UST.DWG



LEGEND

- EXISTING REMEDIATION WELL
- DECOMMISSIONED MONITORING WELL
- EXISTING MONITORING WELL
- UST SAMPLE
- GEOTECHNICAL BORING (SOUNDEARTH 2012)
- GEOTECHNICAL BORING (GEOENGINEERS 2012)
- GEOTECHNICAL BORING (THE RILEY GROUP 2008)
- SOIL BORING (THE RILEY GROUP 2008)
- SOIL BORING (GEOTECH CONSULTANTS 1994)
- PROPERTY/CONSTRUCTION EXCAVATION BOUNDARY
- PARCEL BOUNDARY
- SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- ABOVEGROUND STORAGE TANK
- WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEAN UP LEVEL
- NORTH AMERICAN VERTICAL DATUM 1988
- UNDERGROUND STORAGE TANK
- REFERENCE TO PILE NUMBER/LOCATION

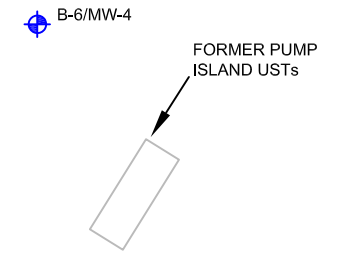
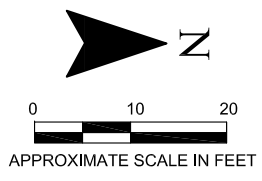
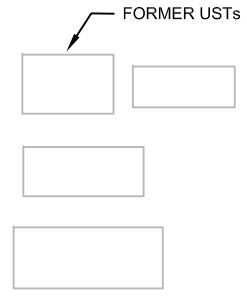
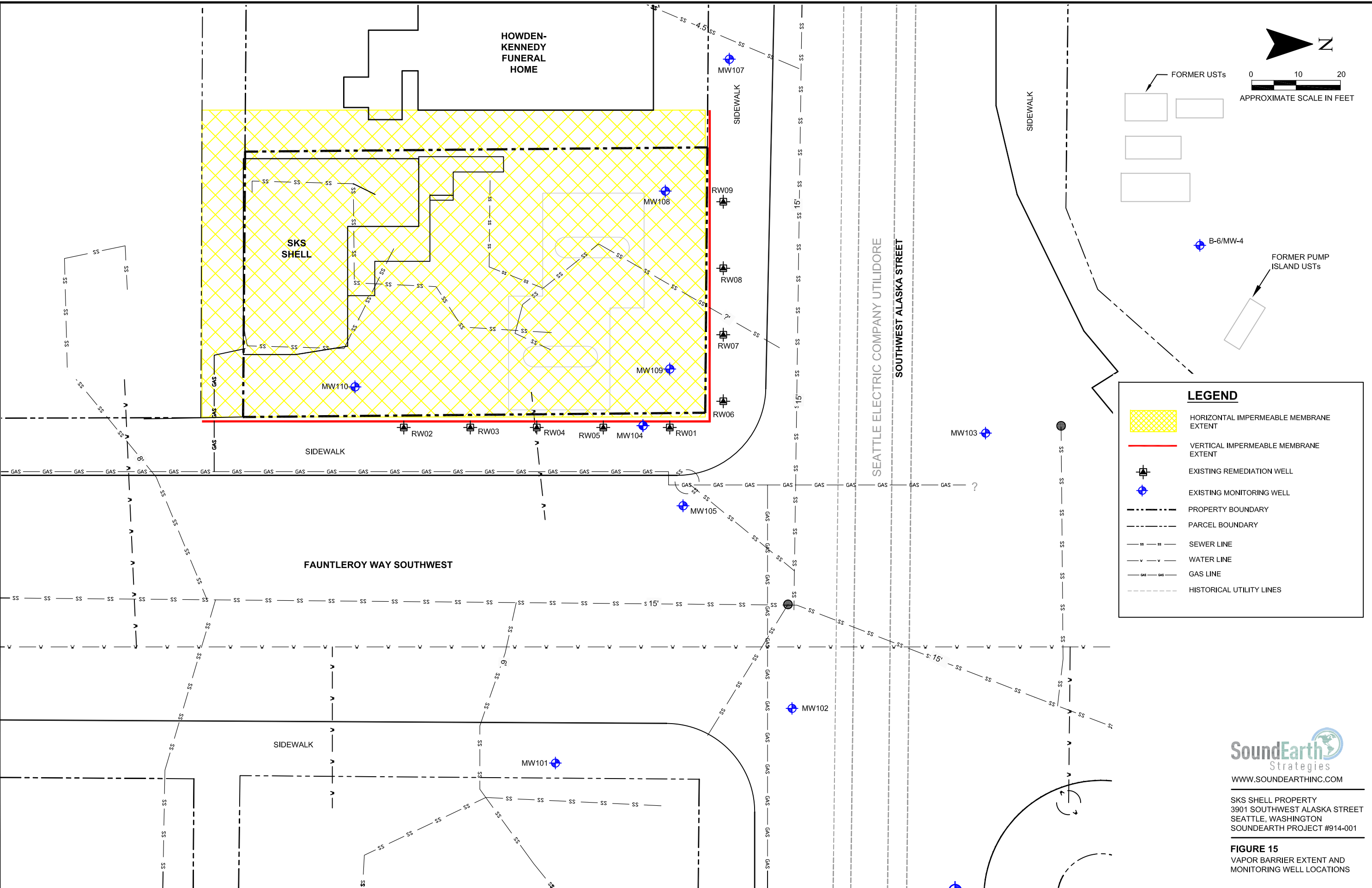
24' x 24' SOIL SAMPLING GRID

BELOW MTCA METHOD A











SoundEarth Strategies
 WWW.SOUNDEARTHINC.COM

SKS SHELL PROPERTY
 3901 SOUTHWEST ALASKA STREET
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0914-001

FIGURE 14
 UST SAMPLE LOCATIONS



LEGEND

-  HORIZONTAL IMPERMEABLE MEMBRANE EXTENT
-  VERTICAL IMPERMEABLE MEMBRANE EXTENT
-  EXISTING REMEDIATION WELL
-  EXISTING MONITORING WELL
-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  SEWER LINE
-  WATER LINE
-  GAS LINE
-  HISTORICAL UTILITY LINES



SKS SHELL PROPERTY
 3901 SOUTHWEST ALASKA STREET
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #914-001

FIGURE 15
 VAPOR BARRIER EXTENT AND
 MONITORING WELL LOCATIONS

TABLES



Table 1
Summary of Historical Soil Analytical Results
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Sample Location | Sample Identification | Date Sampled | Sampled By | Sample Depth | Analytical Results (mg/kg) | | | | | | | | |
|---|-----------------------|--------------|------------|--------------|-----------------------------|------------------------|------------------------|-----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | | GRPH ⁽¹⁾ | Benzene ⁽²⁾ | Toluene ⁽²⁾ | Ethylbenzene ⁽²⁾ | Total Xylenes ⁽²⁾ | DRPH ⁽³⁾ | ORPH ⁽³⁾ | MTBE ⁽²⁾ | Lead ⁽⁴⁾ |
| B-1 | B-1 @ 17.5 | 05/25/95 | EAI | 17.5 | 3,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| B-2 | B-2 @ 22.5 | 05/25/95 | EAI | 22.5 | 5,600 | -- | -- | -- | -- | -- | -- | -- | -- |
| B-3 | B-3 @ 17.5 | 05/26/95 | EAI | 17.5 | 9,000 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | MW-1 @ 22.5-24.0 | 07/06/95 | EAI | 22.5-24.0 | -- | -- | -- | -- | -- | ND | -- | -- | -- |
| | MW-1 @ 27.5-29.0 | 07/06/95 | EAI | 27.5-29.0 | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| MW-2 | MW-2 @ 17.5-19.0 | 07/07/95 | EAI | 17.5-19.0 | -- | -- | -- | -- | -- | ND | -- | -- | -- |
| | MW-2 @ 22.5-24.0 | 07/07/95 | EAI | 22.5-24.0 | 44 | 0.29 | 2.9 | 0.46 | 2.64 | -- | -- | -- | -- |
| MW-3 | MW-3 @ 12.5-14.0 | 07/07/95 | EAI | 12.5-14.0 | -- | -- | -- | -- | -- | ND | -- | -- | -- |
| | MW-3 @ 22.5-24.0 | 07/07/95 | EAI | 22.5-24.0 | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| B-1 | B-1-12 | 02/05/07 | RGI | 12 | 790 ^d | ND | 1.1 ^d | 2.7 ^d | 8.3 ^d | 220 ^x | ND | -- | -- |
| | B-1-19 | 02/05/07 | RGI | 19 | 1,200 ^d | 0.47 ^d | 2.9 ^d | 5.2 ^d | 18 ^d | 1,900 ^x | ND | -- | -- |
| | B-1-26 | 02/05/07 | RGI | 26 | ND | ND | ND | ND | ND | ND | ND | -- | -- |
| | B-1-30 | 02/05/07 | RGI | 30 | ND | ND | ND | ND | ND | ND | ND | -- | -- |
| B-2 | B-2-16 | 02/05/07 | RGI | 16 | 77 | ND | 0.03 | 0.14 | 0.67 | ND | ND | -- | -- |
| B-3 | B-3-18 | 02/05/07 | RGI | 18 | 130 | ND | 0.07 | 0.18 | 0.83 | ND | ND | -- | -- |
| | B-3-25 | 02/05/07 | RGI | 25 | ND | ND | 0.04 | 0.17 | 0.80 | ND | ND | -- | -- |
| B-4 | B-4-24 | 02/05/07 | RGI | 24 | ND | ND | ND | ND | ND | ND | ND | -- | -- |
| B-5 | B-5-20 | 02/05/07 | RGI | 20 | 27 | ND | ND | ND | ND | ND | ND | -- | -- |
| | B-5-23 | 02/05/07 | RGI | 23 | 25 | ND | ND | ND | 0.08 | ND | ND | -- | -- |
| B-6 | B-6-21 | 02/05/07 | RGI | 21 | ND | ND | ND | ND | ND | ND | ND | -- | -- |
| | B-6-24 | 02/05/07 | RGI | 24 | 350 ^d | 0.49 ^d | 1.7 ^d | 5.8 ^d | ND | 2,600 ^x | ND | -- | -- |
| GLMW-1 | GLMW-1-15 | 06/07/11 | G-Logics | 15 | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| | GLMW-1-20 | 06/07/11 | G-Logics | 20 | 153 | 0.0346 | ND | 0.116 | 0.375 | ND | ND | ND | 2.10 |
| | GLMW-1-25 | 06/07/11 | G-Logics | 25 | ND | 0.0648 | ND | 0.0715 | 0.122 | ND | ND | -- | -- |
| GLMW-2 | GLMW-2-15 | 06/07/11 | G-Logics | 15 | >3,200 ^d | 3.42 | 0.409 | 6.50 ^d | 18.39 ^d | ND | ND | ND | 2.90 |
| | GLMW-2-20 | 06/07/11 | G-Logics | 20 | >4,400 ^d | 6.73 ^d | 7.88 ^d | 14.5 ^d | 85.2 ^d | -- | -- | -- | -- |
| | GLMW-2-25 | 06/07/11 | G-Logics | 25 | ND | 0.677 | 0.121 | 0.274 | 0.515 | -- | -- | -- | -- |
| GLMW-3 | GLMW-3-20 | 06/07/11 | G-Logics | 20 | ND | ND | ND | ND | ND | -- | -- | -- | -- |
| | GLMW-3-25 | 06/07/11 | G-Logics | 25 | 15 | ND | ND | 0.537 | 1.856 | ND | ND | -- | -- |
| MW101 | MW101-22.5 | 08/05/12 | SoundEarth | 22.5 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW101-25 | 08/05/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW101-27.5 | 08/05/12 | SoundEarth | 27.5 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW101-30 | 08/05/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW101-35 | 08/05/12 | SoundEarth | 35 | -- | -- | <0.02 | <0.02 | -- | -- | -- | -- | -- |
| | MW101-40 | 08/05/12 | SoundEarth | 40 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW101-45 | 08/05/12 | SoundEarth | 45 | -- | -- | <0.02 | <0.02 | -- | -- | -- | -- | -- |
| | MW101-50 | 08/05/12 | SoundEarth | 50 | -- | -- | <0.02 | <0.02 | -- | -- | -- | -- | -- |
| | MW101-55 | 08/05/12 | SoundEarth | 55 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| MTCA Method A Cleanup Level for Soil⁽⁵⁾ | | | | | 100/30⁽⁶⁾ | 0.03 | 7 | 6 | 9 | 2,000 | 2,000 | 0.1 | 250 |



Table 1
Summary of Historical Soil Analytical Results
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Sample Location | Sample Identification | Date Sampled | Sampled By | Sample Depth | Analytical Results (mg/kg) | | | | | | | | | |
|---|-----------------------|--------------|------------|--------------|----------------------------|------------------------|------------------------|-----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|----|
| | | | | | GRPH ⁽¹⁾ | Benzene ⁽²⁾ | Toluene ⁽²⁾ | Ethylbenzene ⁽²⁾ | Total Xylenes ⁽²⁾ | DRPH ⁽³⁾ | ORPH ⁽³⁾ | MTBE ⁽²⁾ | Lead ⁽⁴⁾ | |
| MW102 | MW102-20 | 11/02/12 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW102-25 | 11/02/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW102-31 | 11/02/12 | SoundEarth | 31 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| MW103 | MW103-20 | 11/02/12 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW103-25 | 11/02/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | MW103-31 | 11/02/12 | SoundEarth | 31 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| MW104 | MW104-20 | 11/05/12 | SoundEarth | 20 | 1,000 | <0.4 | <0.4 | 13 | 12 | <50 | <250 | -- | -- | -- |
| | MW104-23 | 11/05/12 | SoundEarth | 23 | 440 | 0.47 | 0.69 | 4.5 | 7.7 | -- | -- | -- | -- | -- |
| | MW104-25 | 11/05/12 | SoundEarth | 25 | <2 | 0.067 | <0.02 | 0.027 | <0.06 | <50 | <250 | -- | -- | -- |
| | MW104-28 | 11/05/12 | SoundEarth | 28 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- | -- |
| | MW104-30 | 11/05/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- | -- |
| | MW104-33 | 11/05/12 | SoundEarth | 33 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- | -- |
| MW105 | MW105-20 | 12/12/12 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | MW105-25 | 12/12/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | MW105-30 | 12/12/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| SB201 | SB201-20 | 11/05/12 | SoundEarth | 20 | <2 | <0.02 | <0.02 | 0.027 | 0.20 | -- | -- | -- | -- | -- |
| | SB201-23 | 11/05/12 | SoundEarth | 23 | 710 | 0.63 | 0.88 | 8.8 | 63 | -- | -- | -- | -- | -- |
| | SB201-25 | 11/05/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- | -- |
| | SB201-30 | 11/05/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | SB201-33 | 11/05/12 | SoundEarth | 33 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- | -- |
| SB202 | SB202-20 | 11/05/12 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | SB202-25 | 11/05/12 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | SB202-28 | 11/05/12 | SoundEarth | 28 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | SB202-30 | 11/05/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | SB202-35 | 11/05/12 | SoundEarth | 35 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| SMW04 | SMW04-15 | 08/29/12 | SoundEarth | 15 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| | SMW04-20 | 08/29/12 | SoundEarth | 20 | 7.3 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- | -- |
| | SMW04-25 | 08/29/12 | SoundEarth | 25 | 1,500 | <2 | 4.9 | 23 | 62 | 2,900* | <250 | -- | -- | -- |
| | SMW04-30 | 08/29/12 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | SMW04-35 | 08/29/12 | SoundEarth | 35 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | -- | -- | -- | -- |
| MW106 | MW106-15 | 12/12/12 | SoundEarth | 15 | -- | -- | -- | -- | -- | <50 | <250 | -- | -- | -- |
| | MW106-20 | 12/12/12 | SoundEarth | 20 | -- | -- | -- | -- | -- | <50 | <250 | -- | -- | -- |
| | MW106-25 | 12/12/12 | SoundEarth | 25 | -- | -- | -- | -- | -- | <50 | <250 | -- | -- | -- |
| RW01 | PW01-15 | 02/20/13 | SoundEarth | 15 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | PW01-17.5 | 02/20/13 | SoundEarth | 17.5 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| RW02 | RW02-25 | 07/09/14 | SoundEarth | 25 | 7.3 | <0.02 | <0.02 | 0.19 | 1.4 | <50 | <250 | -- | -- | -- |
| | RW02-35 | 07/09/14 | SoundEarth | 35 | <2 | <0.02 | <0.02 | 0.038 | 0.23 | <50 | <250 | -- | -- | -- |
| RW04 | RW04-25 | 07/10/14 | SoundEarth | 25 | 16 | 0.069 | <0.02 | 0.16 | 0.44 | <50 | <250 | -- | -- | -- |
| | RW04-35 | 07/11/14 | SoundEarth | 35 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| RW07 | RW07-25 | 07/15/14 | SoundEarth | 25 | <2 | 0.037 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | RW07-35 | 07/15/14 | SoundEarth | 35 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| RW09 | RW09-25 | 07/11/14 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | RW09-35 | 07/11/14 | SoundEarth | 35 | <2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| MTCA Method A Cleanup Level for Soil ⁽⁵⁾ | | | | | 100/30 ⁽⁶⁾ | 0.03 | 7 | 6 | 9 | 2,000 | 2,000 | 0.1 | 250 | |



Table 1
Summary of Historical Soil Analytical Results
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Sample Location | Sample Identification | Date Sampled | Sampled By | Sample Depth | Analytical Results (mg/kg) | | | | | | | | |
|--|-----------------------|--------------|------------|--------------|----------------------------|------------------------|------------------------|-----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | | GRPH ⁽¹⁾ | Benzene ⁽²⁾ | Toluene ⁽²⁾ | Ethylbenzene ⁽²⁾ | Total Xylenes ⁽²⁾ | DRPH ⁽³⁾ | ORPH ⁽³⁾ | MTBE ⁽²⁾ | Lead ⁽⁴⁾ |
| UST System Confirmation Samples | | | | | | | | | | | | | |
| Pump Island 1 | PI01-01 | 12/04/13 | SoundEarth | 1 | 35 | <0.02 | 0.37 | 0.17 | 2.2 | 480 | <250 | -- | -- |
| UST 3 | UST03-B-13 | 12/04/13 | SoundEarth | 13 | <2 | <0.02 | 0.025 | <0.02 | 0.095 | <50 | <250 | -- | -- |
| Excavation Sidewall (North) | EX01-NSW-13 | 12/04/13 | SoundEarth | 13 | 42 | 0.024 | 0.12 | <0.02 | 0.15 | <50 | <250 | -- | -- |
| UST 2 | UST02-B-14 | 12/04/13 | SoundEarth | 14 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| Excavation Sidewall (East) | EX01-ESW-13 | 12/04/13 | SoundEarth | 13 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| UST 1 | UST01-B-14 | 12/04/13 | SoundEarth | 14 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| Excavation Sidewall (South) | EX01-SSW-13 | 12/04/13 | SoundEarth | 13 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| Pump Island 2 | PI02-02 | 12/05/13 | SoundEarth | 2 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| Excavation Sidewall (West) | EX01-WSW-12 | 12/05/13 | SoundEarth | 12 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| UST 4 | UST04-B-13 | 12/05/13 | SoundEarth | 13 | 4.0 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| Stockpile 01 | SP01-01 | 12/05/13 | SoundEarth | -- | 83 | 0.048 | 1.3 | 0.67 | 4.4 | <50 | <250 | -- | -- |
| Stockpile 01 | SP01-02 | 12/05/13 | SoundEarth | -- | 92 | 0.099 | 2.5 | 1.1 | 6.4 | <50 | <250 | -- | -- |
| Stockpile 01 | SP01-03 ^{PC} | 12/05/13 | SoundEarth | -- | 20 | <0.02 | 0.14 | 0.10 | 1.0 | <50 | <250 | -- | -- |
| Forensics Samples | | | | | | | | | | | | | |
| PI01-01 | PI01-01 | 12/06/13 | SoundEarth | 1 | 35 | <0.02 | 0.37 | 0.17 | 2.2 | 480 | <250 | -- | -- |
| UST03-B-13 | UST03-B-13 | 12/06/13 | SoundEarth | 13 | <2 | <0.02 | 0.025 | <0.02 | 0.095 | <50 | <250 | -- | -- |
| EX01-NSW-13 | EX01-NSW-13 | 12/06/13 | SoundEarth | 13 | 42 | 0.024 | 0.12 | <0.02 | 0.15 | <50 | <250 | -- | -- |
| UST02-B-14 | UST02-B-14 | 12/06/13 | SoundEarth | 14 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| EX01-ESW-13 | EX01-ESW-13 | 12/06/13 | SoundEarth | 13 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| UST01-B-14 | UST01-B-14 | 12/06/13 | SoundEarth | 14 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| EX01-SSW-13 | EX01-SSW-13 | 12/06/13 | SoundEarth | 13 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| PI01-02 | PI01-02 | 12/06/13 | SoundEarth | 2 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| EX01-WSW-12 | EX01-WSW-12 | 12/06/13 | SoundEarth | 12 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| UST04-B-13 | UST04-B-13 | 12/06/13 | SoundEarth | 13 | 4.0 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| SB301A | SB301A-20 | 09/04/14 | SoundEarth | 20 | 3,000 | <2 | <2 | 32 | 45 | -- | -- | -- | 2.10 |
| SB302 | SB302-20 | 09/04/14 | SoundEarth | 20 | 3,100 | <2 | <2 | 12 | 20 | -- | -- | -- | -- |
| | SB302-23 | 09/04/14 | SoundEarth | 23 | 3,300 | <2 | <2 | 21 | 64 | -- | -- | -- | 2.73 |
| SB303 | SB303-24 | 09/04/14 | SoundEarth | 20 | 3600 | <2 | 6.7 | <2 | 170 | -- | -- | -- | -- |
| SB304 | SB304-24 | 09/04/14 | SoundEarth | 24 | 1,100 | <2 | <2 | <2 | <6 | -- | -- | -- | -- |
| 2014 Subsurface Investigation | | | | | | | | | | | | | |
| MW107 | MW107-20 | 10/31/14 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | MW107-25 | 10/31/14 | SoundEarth | 25 | 63 | <0.02 | 0.24 | 0.57 | 0.41 | <50 | <250 | -- | -- |
| | MW107-30 | 10/31/14 | SoundEarth | 30 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| SB401 | SB401-20 | 10/31/14 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | SB401-25 | 10/31/14 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| MTCA Cleanup Level for Soil ⁽⁵⁾ | | | | | 100/30 ⁽⁶⁾ | 0.03 | 7 | 6 | 9 | 2,000 | 2,000 | 0.1 | 250 |



Table 1
Summary of Historical Soil Analytical Results
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Sample Location | Sample Identification | Date Sampled | Sampled By | Sample Depth | Analytical Results (mg/kg) | | | | | | | | |
|--|-----------------------|--------------|------------|--------------|-----------------------------|------------------------|------------------------|-----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | | GRPH ⁽¹⁾ | Benzene ⁽²⁾ | Toluene ⁽²⁾ | Ethylbenzene ⁽²⁾ | Total Xylenes ⁽²⁾ | DRPH ⁽³⁾ | ORPH ⁽³⁾ | MTBE ⁽²⁾ | Lead ⁽⁴⁾ |
| 2014 Subsurface Investigation | | | | | | | | | | | | | |
| SB402 | SB402-20 | 10/31/14 | SoundEarth | 20 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| | SB402-25 | 10/31/14 | SoundEarth | 25 | 2,000 | <0.4 | 9.6 | 18 | 12 | 850 ^x | <250 | -- | -- |
| SB403 | SB403-25 | 10/31/14 | SoundEarth | 25 | <2 | <0.02 | <0.02 | <0.02 | <0.06 | <50 | <250 | -- | -- |
| MTCA Cleanup Level for Soil⁽⁵⁾ | | | | | 100/30⁽⁶⁾ | 0.03 | 7 | 6 | 9 | 2,000 | 2,000 | 0.1 | 250 |

NOTES:

Red denotes concentration exceeds MTCA Method A cleanup level.

Bold denotes concentration below laboratory detection limit, but exceeding the MTCA cleanup level for soil; the detection limit has been raised due to high concentrations of associated analytes requiring dilution and/or historical cleanup levels that historical detection limits were based upon.

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by Method NWTPH-Gx.

⁽²⁾Analyzed by EPA Method 8021B or 8260B.

⁽³⁾Analyzed by Method NWTPH-Dx.

⁽⁴⁾Analyzed by EPA Method 6010B or 200.8.

⁽⁵⁾MTCA Method A Soil Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

⁽⁶⁾100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

Laboratory Notes:

^mThe sample was received in a container not approved by the method. The value reported should be considered an estimate.

^dDenotes the sample was diluted. Detection limits are raised due to dilution.

^{*}The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

< = not detected at a concentration exceeding the laboratory reporting limit

-- = not analyzed

DRPH = diesel-range petroleum hydrocarbons

EAI = Environmental Associates, Inc.

EPA = Environmental Protection Agency

G-Logics = G-Logics Inc.

GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTBE = methyl tertiary-butyl ether

MTCA = Washington State Model Toxics Control Act

ND = not detected

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

RGI = The Riley Group, Inc.

SoundEarth = SoundEarth Strategies, Inc.

UST = underground storage tank



Table 2
 Summary of Historical Groundwater Data and Analytical Results
 SKS Shell Property
 3901 Southwest Alaska Street
 Seattle, Washington

| Well ID | Sample Date | Sampled By | Depth to Groundwater (feet below TOC) | Relative Groundwater Elevation ⁽¹⁾ | Analytical Results (µg/L) | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|---------------------------------------|---|---------------------------|------------------------|------------------------|------------------------------|------------------------------|--------------------------------|---------------------|--------------------|--------------------|-----------------------|---------------------|--------------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------|----------------------------------|
| | | | | | GRPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethyl-benzene ⁽³⁾ | Total Xylenes ⁽³⁾ | Other 8260 VOCs ⁽³⁾ | MTBE ⁽³⁾ | EDC ⁽³⁾ | EDB ⁽³⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Tetraethyl Lead ⁽⁴⁾ | Dissolved Chromium ⁽⁵⁾ | Dissolved Arsenic ⁽⁵⁾ | Dissolved Cadmium ⁽⁵⁾ | Dissolved Lead ⁽⁵⁾ | Dissolved Mercury ⁽⁵⁾ |
| MW101 | 08/06/12 | SoundEarth | 24.39 | 245.15 | <100 | <0.35 | <1 | <1 | <1 | <3 | -- | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- |
| | 04/01/13 | SoundEarth | 24.67 | 244.87 | <100 | <1 | <1 | <1 | <1 | <3 | -- | -- | -- | <50 | <250 | -- | -- | -- | -- | -- | -- |
| MW101-55 Temp | 08/05/12 | SoundEarth | Approx. 55' | -- | <100 | <0.35 | <1 | <1 | <1 | <3 | -- | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- |
| MW102 | 11/07/12 | SoundEarth | 25.41 | 243.65 | <100 | <0.35 | <1 | <1 | <1 | <3 | -- | <1 | <1 | <1 | <50 ⁽⁶⁾ | <250 ⁽⁶⁾ | -- | -- | -- | -- | -- |
| MW103 | 11/07/12 | SoundEarth | 27.80 | 241.75 | <100 | <0.35 | <1 | <1 | <1 | <3 | -- | <1 | <1 | <1 | <50 ⁽⁶⁾ | <250 ⁽⁶⁾ | -- | -- | -- | -- | -- |
| MW104 | 11/07/12 | SoundEarth | 24.41 | 244.94 | 6,100 | 2,100 | 10 | 120 | 418 | -- | <1 | <1 | <1 | 4,000 | <250 | -- | -- | -- | -- | -- | -- |
| | 03/06/13 | SoundEarth | 23.24 | 246.11 | 9,900 | 2,300 | 110 | 470 | 870 | -- | -- | -- | -- | 1,900 ^x | <250 | -- | -- | -- | -- | -- | -- |
| | 04/01/13 | SoundEarth | 23.37 | 245.98 | 20,000 | 2,600 | 140 | 640 | 1,300 | -- | -- | -- | -- | 540 ^{(6)x} | <250 ⁽⁶⁾ | -- | -- | -- | -- | -- | -- |
| | 06/12/14 | SoundEarth | 22.54 | 246.81 | 15,000 | 1,800 | 120 | 480 | 1,330 | -- | -- | -- | <0.01 | 3,600 ^{(6)x} | <250 ⁽⁶⁾ | -- | -- | -- | -- | <1 | -- |
| MW105 | 12/13/12 | SoundEarth | 24.25 | 245.05 | 140 | <1 | <1 | <1 | <3 | -- | -- | -- | -- | <50 ⁽⁶⁾ | <250 ⁽⁶⁾ | -- | -- | -- | -- | -- | -- |
| | 03/06/13 | SoundEarth | 23.33 | 245.97 | <100 | <0.35 | <1 | <1 | <3 | -- | -- | -- | -- | 61 ^x | <250 | -- | -- | -- | -- | -- | -- |
| MW-X | 08/05/12 | SoundEarth | 24.26 | 244.19 | <100 | <0.35 | <1 | <1 | <3 | -- | <1 | <1 | <1 | <60 ^b | -- | -- | -- | -- | -- | -- | -- |
| GLMW-1 | 06/08/11 | G-Logics | 22.76 | 246.68 | 11,600 | 1,510 | 41.8 | 349 | 884 | -- | -- | -- | -- | 4,590 | -- | -- | -- | -- | -- | -- | -- |
| | 08/06/12 | SoundEarth | -- | -- | 6,000 | 640 | 15 | 190 | 233 | -- | <10 | <10 | <10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/07/12 | SoundEarth | 23.52 | 245.92 | 4,500 | 550 ^{ve} | 16 | 150 ^{ve} | 242 | -- | <1 | <1 | <1 | 4,100 ^x | -- | -- | -- | -- | -- | -- | -- |
| | 06/12/14 | SoundEarth | 22.65 | 246.79 | 13,000 | 1,500 | 23 | 180 | 312 | -- | -- | -- | <0.01 | 3,300 ^{(6)x} | <250 ⁽⁶⁾ | -- | -- | -- | -- | <1 | -- |
| GLMW-2 | 06/08/11 | G-Logics | 22.72 | 246.80 | 22,500 | 2,410 | 467 | 825 | 3,340 | -- | -- | -- | -- | 961 | -- | -- | -- | -- | -- | -- | -- |
| | 08/06/12 | SoundEarth | 23.34 | 246.18 | 0.05' SPH | -- | -- | -- | -- | -- | -- | -- | -- | 6,000 ^x | -- | 480000 mg/kg | -- | -- | -- | -- | -- |
| GLMW-3 | 06/08/11 | G-Logics | 23.32 | 247.05 | 10,500 | 8.03 | 46.6 | 998 | 2,787 | -- | -- | -- | -- | 250 | -- | -- | -- | -- | -- | -- | -- |
| | 08/06/12 | SoundEarth | 23.42 | 246.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 07/14/95 | EAI ⁽⁷⁾ | -- | -- | 7,500 | 78 | 30 | 130 | 410 | -- | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | Alisto ⁽⁷⁾ | -- | -- | 1,800 ^b | 3.5 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/10/98 | Alisto ⁽⁷⁾ | -- | -- | 2,140 | ND ^c | ND | ND | 18.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/99 | Alisto ⁽⁷⁾ | -- | -- | 2,120 | ND ^c | ND ^c | ND ^c | ND ^c | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/11/00 | Alisto ⁽⁷⁾ | -- | -- | 1,310 | 7.26 | ND ^c | ND ^c | ND ^c | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/26/01 | Alisto ⁽⁷⁾ | -- | -- | 851 | 3.7 | ND | ND | ND | -- | 4.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/01 | Alisto ⁽⁷⁾ | -- | -- | 540 | 6.2 | 2 | 1 | 4.7 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/02 | Alisto ⁽⁷⁾ | -- | -- | 1,300 | 16 | 4.8 | 2.4 | 10 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/03 | Alisto ⁽⁷⁾ | -- | -- | 1,800 | 2.7 | 4.1 | 7 | 3 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/08/03 | Alisto ⁽⁷⁾ | -- | -- | 1,100 | 9.2 | 3.6 | 4.7 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/21/04 | AEG ⁽⁷⁾ | -- | -- | 190 | ND | 4.5 | ND | 4 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/23/08 | RGI ⁽⁷⁾ | -- | -- | >3' SPH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/21/08 | RGI ⁽⁷⁾ | -- | -- | 0.01' SPH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/09/11 | G-Logics | 23.26 | 246.19 | 5,000 | 2.25 | <1.00 | 22.5 | 82.7 | -- | ND | <1.00 | <0.0100 | 381 | -- | -- | -- | -- | -- | -- | -- |
| 08/06/12 | SoundEarth | 23.95 | 245.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 07/14/95 | EAI ⁽⁷⁾ | -- | -- | 25,000 | 2,500 | 48 | 100 | 240 | -- | -- | -- | -- | 9,500 | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | Alisto ⁽⁷⁾ | -- | -- | 280,000 | 4,000 | 44,000 | 5,500 | 28,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/10/98 | Alisto ⁽⁷⁾ | -- | -- | 161,000 | 4,000 | 42,100 | 5,710 | 29,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/99 | Alisto ⁽⁷⁾ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/11/00 | Alisto ⁽⁷⁾ | -- | -- | ND | ND | ND | ND | ND | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/26/01 | Alisto ⁽⁷⁾ | -- | -- | ND | ND | ND | ND | ND | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/01 | Alisto ⁽⁷⁾ | -- | -- | 390 ^d | 85 | 10 | 2.7 | 13 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/02 | Alisto ⁽⁷⁾ | -- | -- | 3,500 | 58 | 6.5 | 160 | 300 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/03 | Alisto ⁽⁷⁾ | -- | -- | 140 | 1 | ND | 3.50 | 3 | -- | ND | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- |
| | 08/08/03 | Alisto ⁽⁷⁾ | -- | -- | 7,500 | 100 | 490 | 1,400 | 350 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/21/04 | AEG ⁽⁷⁾ | -- | -- | 25,200 | 403 | 1,100 | 1,540 | 4,040 | -- | ND | -- | -- | 80,000 | -- | -- | -- | -- | -- | -- | -- |
| | 10/23/08 | RGI ⁽⁷⁾ | -- | -- | 20,000 | 62 | ND | 530 | 1,640 | -- | -- | -- | -- | ND | ND | -- | -- | -- | -- | -- | -- |
| | 05/09/11 | G-Logics | -- | -- | 67,000 | 64.3 | 56.4 | 3,670 | 21,890 | -- | <1.00 | <1.00 | <0.0100 | 1,950 | -- | -- | -- | -- | -- | -- | -- |
| | 06/08/11 | G-logics | 22.35 | 247.44 | 33,200 | 29.9 | 27.7 | 2,720 | 9,970 | -- | <10 | <10 | <10 | 411 | -- | -- | -- | -- | -- | -- | -- |
| | 08/06/12 | SoundEarth | -- | -- | 32,000 | 11 | 23 | 1,900 | 10,100 | -- | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/07/12 | SoundEarth | 23.24 | 246.55 | 5,300 | 2.2 | 4.0 | 400 ^{ve} | 1,710 | -- | <1 | <1 | <1 | 2,800 | -- | -- | -- | -- | -- | -- | -- | |
| 11/05/13 | SoundEarth | 24.8 | 244.99 | 22,000 | 2.7 | 9.2 | 1,500 | 7,500 | -- | -- | -- | -- | 3,900 ^x | 630 ^x | -- | -- | -- | -- | -- | -- | |
| MTCA Method A Cleanup Levels for Groundwater ⁽⁸⁾ | | | | | 1,000/800 ⁽⁹⁾ | 5 | 1,000 | 700 | 1,000 | varies | 20 | 5 | 0.01 | 500 | 500 | NA | 50 | 5 | 5 | 15 | 2 |



Table 2
Summary of Historical Groundwater Data and Analytical Results
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Well ID | Sample Date | Sampled By | Depth to Groundwater (feet below TOC) | Relative Groundwater Elevation ⁽¹⁾ | Analytical Results (µg/L) | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|---------------------------------------|---|--------------------------------|------------------------|------------------------|------------------------------|------------------------------|--------------------------------|---------------------|--------------------|-----------------------|---------------------|---------------------|--------------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------|----------------------------------|
| | | | | | GRPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethyl-benzene ⁽³⁾ | Total Xylenes ⁽³⁾ | Other 8260 VOCs ⁽³⁾ | MTBE ⁽³⁾ | EDC ⁽³⁾ | EDB ⁽³⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Tetraethyl Lead ⁽⁴⁾ | Dissolved Chromium ⁽⁵⁾ | Dissolved Arsenic ⁽⁵⁾ | Dissolved Cadmium ⁽⁵⁾ | Dissolved Lead ⁽⁵⁾ | Dissolved Mercury ⁽⁵⁾ |
| MW-3 | 07/14/95 | EAI ⁽⁷⁾ | -- | -- | 2,400 | 140 | 7.4 | 13 | 14 | -- | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | |
| | 06/18/97 | Alisto ⁽⁷⁾ | -- | -- | 3,000 | 48 | 10 | 18 | 19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/10/98 | Alisto ⁽⁷⁾ | -- | -- | 2,270 | 30.1 | 3.93 | 5.62 | ND ^c | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/17/99 | Alisto ⁽⁷⁾ | -- | -- | 1,850 | ND ^c | ND ^c | ND ^c | 13.6 ^c | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 07/11/00 | Alisto ⁽⁷⁾ | -- | -- | 1,700 | 54.8 | 10 | 9.61 | 16.8 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 03/26/01 | Alisto ⁽⁷⁾ | -- | -- | 1,030 | 8.02 | 3.15 | ND | ND | -- | 2.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/17/01 | Alisto ⁽⁷⁾ | -- | -- | 1,200 | 11 | 3.5 | 1.7 | 1.4 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 06/28/02 | Alisto ⁽⁷⁾ | -- | -- | 3,000 | 33 | 11 | 2.7 | 5 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 03/01/03 | Alisto ⁽⁷⁾ | -- | -- | 3,900 | 28 | 7.5 | 4.6 | 4 | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 08/08/03 | Alisto ⁽⁷⁾ | -- | -- | 3,200 | 20 | 8.4 | 2.2 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 03/21/04 | Alisto ⁽⁷⁾ | -- | -- | 780 | 43 | 15 | 9.2 | 57 | -- | ND | -- | -- | ND | -- | -- | -- | -- | -- | -- | |
| | 10/23/08 | RGI ⁽⁷⁾ | -- | -- | 1,300 | 6.5 | 2.5 | 3.6 | 8.4 | -- | -- | -- | -- | ND | ND | -- | -- | -- | -- | -- | |
| | 05/09/11 | G-Logics | -- | -- | 160,000 | <1.00 | 11 | 690 | 2,886 | -- | <1.00 | <1.00 | <0.0100 | 13,300 | -- | -- | -- | -- | -- | -- | |
| | 06/08/11 | G-Logics | 23.25 | 247.00 | 13,500 | 8.46 | 12.5 | 362 | 1,501 | -- | -- | -- | -- | 910 | -- | -- | -- | -- | -- | -- | |
| 08/06/12 | SoundEarth | 24.11 | 246.14 | trace SPH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 06/12/14 | SoundEarth | 23.64 | 246.61 | SPH/7,500 | 68 | 9.4 | 180 | 420 | -- | -- | -- | <0.01 | 3,700 ^{(6)x} | <250 ⁽⁶⁾ | -- | -- | -- | -- | 3.62 | | |
| SMW04 | 08/31/12 | SoundEarth | 26.03 | 246.27 | 1,000 | <0.35 | 3 | 43 | 63 | ND | -- | <1 | -- | 320 ^f | <250 | -- | <1 | 8.42 | 1.62 | <1 | <0.1 |
| | 04/01/13 | SoundEarth | 25.57 | 246.73 | 4,900 | 5.4 | 13 | 220 | 380 | -- | -- | -- | -- | 150 ^{(6)x} | <250 ⁽⁶⁾ | -- | -- | -- | -- | -- | -- |
| MW106 | 12/13/12 | SoundEarth | 26.97 | 246.36 | <100 | <1 | <1 | <1 | <3 | -- | -- | -- | -- | 110 ^f | <250 | -- | -- | -- | -- | -- | -- |
| | 04/01/13 | SoundEarth | 25.92 | 247.41 | 130 | <1 | <1 | <1 | <3 | -- | -- | -- | -- | <55 ⁽⁶⁾ | <280 ⁽⁶⁾ | -- | -- | -- | -- | -- | -- |
| MW107 | 12/09/15 | SoundEarth | -- | -- | 490 | <1 | <1 | 2 | <3 | -- | -- | -- | -- | 620 | <250 | -- | -- | -- | -- | -- | -- |
| DW-1 | 05/09/11 | G-Logics | -- | -- | 3,400 | 2.8 | <1.0 | <1.0 | 1.15 | -- | <1.0 | <1.0 | <0.01 | <50 | <100 | -- | -- | -- | -- | -- | -- |
| DW-2 | 10/23/08 | RGI ⁽⁷⁾ | -- | -- | >0.5' SPH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/21/08 | RGI ⁽⁷⁾ | -- | -- | 0.6' SPH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DW-3 | 05/09/11 | G-Logics | -- | -- | 190 | <1.0 | <1.0 | <1.0 | 2.62 | -- | <1.0 | <1.0 | <1.0 | 1,140 | <100 | -- | -- | -- | -- | -- | -- |
| DW-4 | 05/09/11 | G-Logics | -- | -- | 140 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <1.0 | <1.0 | <50.0 | <100 | -- | -- | -- | -- | -- | -- |
| | 12/17/99 | Alisto ⁽⁷⁾ | -- | -- | 857 | 4.04 | 5.92 | 8.47 | 152 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DW-4 | 05/09/11 | G-Logics | -- | -- | 77 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <1.0 | <1.0 | 52.4 | <100 | -- | -- | -- | -- | -- | -- |
| MTCA Method A Cleanup Levels for Groundwater⁽⁸⁾ | | | | | 1,000/800⁽⁹⁾ | 5 | 1,000 | 700 | 1,000 | varies | 20 | 5 | 0.01 | 500 | 500 | NA | 50 | 5 | 5 | 15 | 2 |

NOTES:

Red indicates concentrations exceeding MTCA Method A cleanup levels for groundwater.
Bold denotes concentration below laboratory detection limit, but exceeding the MTCA cleanup level for groundwater; the detection limit has been raised due to high concentrations of associated analytes requiring dilution and/or historical cleanup levels that historical detection limits were based upon.
 2012 Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.
 2011 Samples analyzed for G-Logics by Fremont Analytical of Seattle, Washington.
⁽¹⁾Elevation reference datum North American Vertical Datum 1988 (Dowl HKM November 2012).
⁽²⁾Analyzed by Method NWTPH-Gx (gasoline) and NWTPH-Dx (diesel and oil).
⁽³⁾Analyzed by EPA Method 8260B or 8260C.
⁽⁴⁾Analyzed by EPA Method 8082 (result is for product sample).
⁽⁵⁾Analyzed by EPA Method 200.8.
⁽⁶⁾Sample extracts passed through a silica gel column prior to analysis.
⁽⁷⁾Data obtained from G-Logics 2011 Remedial Investigation and Feasibility Study Report Table 2: Groundwater Sample Analyses.
⁽⁸⁾MTCA Cleanup Regulation, Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.
⁽⁹⁾1,000 µg/L when benzene is not present and 800 µg/L when benzene is present.
 August 7, 2012 results for wells MW-2 and GLMW-1 reflect 10x casing volume redevelopment conducted August 6.
Laboratory Notes:
¹This sample did not have a typical gasoline pattern.
²The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
³The sample was diluted. Detection limits may be raised due to dilution.
⁴Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
⁵The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed, not measured
 < = not detected above the laboratory reporting limit
 µg/L = micrograms per liter
 AEG = Associated Environmental Group LLC
 Alisto = Alisto Engineering Group Inc.
 DRPH = diesel-range petroleum hydrocarbons
 EAI = Environmental Associates, Inc.
 EDB = 1,2 dibromoethane
 EDC = 1,2 dichloroethane
 EPA = U.S. Environmental Protection Agency
 G-Logics = G-Logics Inc.
 GRPH = gasoline-range petroleum hydrocarbons
 mg/kg = milligrams per kilogram
 MTBE = methyl tertiary-butyl ether
 MTCA = Washington State Model Toxics Control Act

ND = not detected
 NWTPH = Northwest Total Petroleum Hydrocarbon
 ORPH = oil-range petroleum hydrocarbons
 RGI = The Riley Group, Inc.
 SoundEarth = SoundEarth Strategies, Inc.
 SPH = separate-phase hydrocarbon
 TOC = top of casing elevation
 VOC = volatile organic compound



Table 3
Summary of Soil Analytical Results - TPH and BTEX
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Remediation Area | Grid Location | Sample ID | Sample Date | Elevation (amsl) | Sample Depth (feet bgs) | Performance or Confirmation Sample | Analytical Results (milligrams per kilogram) | | | | | | | |
|--|----------------|----------------|-------------|------------------|-------------------------|------------------------------------|--|------------------------|---------------------|------------------------|------------------------|-----------------------------|------------------------------|--|
| | | | | | | | GRPH ⁽¹⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethylbenzene ⁽³⁾ | Total Xylenes ⁽³⁾ | |
| Kennedy Property | | | | | | | | | | | | | | |
| A18 - SKS Petroleum Area | C1 | K-B01-C1-250 | 05/15/15 | 250 | 20 | Performance | 3,200 | 860^x | <250 | <0.4 | <0.4 | 18 | 31 | |
| | C2 | K-WSW01-C2-250 | 05/26/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | K-B01-C2-242 | 05/27/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | C3 | K-B01-C3-250 | 05/26/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | K-B01-C3-243 | 05/27/15 | 243 | 27 | Confirmation | 19 | <50 | <250 | <0.02 | <0.02 | 0.060 | <0.06 | |
| | D1 | K-NSW01-D1-250 | 05/22/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | K-NSW01-D1-245 | 05/26/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | K-WSW01-D1-250 | 05/15/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | K-WSW01-D1-245 | 05/27/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | D2 | K-B01-D1-242 | 05/27/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| K-WSW01-D2-245 | | 05/27/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | | |
| D3 | K-WSW01-D3-250 | 05/27/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | | |
| Discovery (C4,C5) | C4 | K-NSW01-C4-255 | 05/04/15 | 255 | 15 | Performance | 1,000 | 3,500 | <250 | -- | -- | -- | -- | |
| | | K-B01-C4-248 | 05/27/15 | 248 | 22 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | C5 | K-WSW01-C5-255 | 05/04/15 | 255 | 15 | Performance | 340 | 2,100 | <250 | -- | -- | -- | -- | |
| | | K-B01-C5-252 | 05/04/15 | 252 | 18 | Performance | 230 | 1,700 | <250 | -- | -- | -- | -- | |
| SKS Shell Property | | | | | | | | | | | | | | |
| A18 | A1 | S-B01-A1-03 | 04/02/15 | 267 | 3 | Performance | 28 | <50 | <250 | <0.02 | <0.02 | 0.11 | 0.071 | |
| | | S-NSW01-A1-245 | 05/26/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | 0.045 | <0.02 | <0.02 | <0.06 | |
| | | S-ESW01-A1-265 | 04/15/15 | 265 | 5 | Confirmation | 3.6 | <50 | <250 | <0.02 | 0.031 | <0.02 | <0.06 | |
| | | S-ESW01-A1-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-A1-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-A1-250 | 05/22/15 | 250 | 20 | Confirmation | 4.6 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-ESW01-A1-250 | 05/22/15 | 250 | 20 | Confirmation | 560 | 180 ^x | <250 | <0.02 ^j | <0.1 | 2.0 | 5.3 | |
| | | S-ESW01-A1-245 | 05/29/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-B01-A1-261 | 04/17/15 | 261 | 9 | Performance | 27 | <50 | <250 | <0.02 | 0.064 | <0.02 | 0.073 | |
| | | S-B01-A1-255 | 04/28/15 | 255 | 15 | Performance | 2.7 | <50 | <250 | 0.036 | 0.030 | <0.02 | <0.06 | |
| | S-B01-A1-250 | 05/12/15 | 250 | 20 | Performance | 3,300 | 1,100 ^x | <250 | <0.2 | <0.2 | 25 | 58 | | |
| | S-B01-A1-242 | 05/29/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | | |
| | A2 | S-ESW01-A2-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-ESW01-A2-250 | 05/26/15 | 250 | 20 | Confirmation | 700 | 160 ^x | <250 | <0.02 ^j | 1.6 | 1.6 | 5.8 | |
| | | S-ESW01-A2-245 | 05/29/15 | 245 | 25 | Confirmation | 1,300 | 610 ^x | 300 | <0.02 ^j | 4.8 | 8.9 | 39 | |
| | | S-B01-A2-267 | 04/13/15 | 267 | 3 | Performance | 1,600 | 430 ^x | <250 | <0.02 ^j | <0.1 | 7.6 | 6.0 | |
| | | S-B01-A2-261 | 04/17/15 | 261 | 9 | Performance | 15 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-B01-A2-255 | 04/28/15 | 255 | 15 | Performance | 1,400 | 390 ^x | <250 | <0.02 ^j | 7.0 | 4.9 | 60 | |
| | | S-B01-A2-250 | 05/12/15 | 250 | 20 | Performance | 7,200 | 1,800 ^x | <250 | <0.4 | 65 | 53 | 460 | |
| | | S-B01-A2-242 | 05/29/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| MTCA Cleanup Level for Soil⁽⁴⁾ | | | | | | | 100/30⁽⁵⁾ | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | |



Table 3
Summary of Soil Analytical Results - TPH and BTEX
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Remediation Area | Grid Location | Sample ID | Sample Date | Elevation (amsl) | Sample Depth (feet bgs) | Performance or Confirmation Sample | Analytical Results (milligrams per kilogram) | | | | | | | |
|--|--------------------------------|----------------|----------------|------------------|-------------------------|------------------------------------|--|---------------------|---------------------|------------------------|------------------------|-----------------------------|------------------------------|-------|
| | | | | | | | GRPH ⁽¹⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethylbenzene ⁽³⁾ | Total Xylenes ⁽³⁾ | |
| A18 (continued) | A3 | S-ESW01-A3-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-ESW01-A3-250 | 05/26/15 | 250 | 20 | Confirmation | 14 | <50 | <250 | <0.02 | <0.02 | <0.02 | 0.12 | |
| | | S-ESW01-A3-245 | 05/29/15 | 245 | 25 | Confirmation | 3.7 | 3,200 ^x | <250 | <0.02 | <0.02 | 0.023 | 0.24 | |
| | | S-B01-A3-265 | 04/17/15 | 265 | 5 | Performance | 83 | <50 | <250 | <0.02 | 0.37 | 0.44 | 1.1 | |
| | | S-B01-A3-255 | 04/29/15 | 255 | 15 | Performance | 230 | <50 | <250 | <0.02 | 0.40 | 0.29 | 2.7 | |
| | | S-B01-A3-250 | 05/12/15 | 250 | 20 | Performance | 8,000 | 1,200 ^x | <250 | <0.2 | 24 | 91 | 860 | |
| | S-B01-A3-240.5 | 06/01/15 | 240.5 | 30.5 | Confirmation | 14 | <50 | <250 | <0.02 | <0.02 | 0.42 | 2.5 | | |
| | A4 | S-ESW01-A4-250 | 06/01/16 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-ESW01-A4-245 | 05/29/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-SSW01-A4-265 | 04/15/15 | 265 | 5 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-SSW01-A4-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-SSW01-A4-245 | 06/01/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | 0.14 | <0.06 | |
| | | S-SSW02-A4-255 | 05/12/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | B1 | S-B01-A4-250 | 05/12/15 | 250 | 20 | Performance | 4.0 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-B1-255 | 04/29/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-B1-250 | 05/22/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-B1-245 | 05/26/15 | 245 | 25 | Confirmation | 800 | <50 | <250 | 0.30 | <0.2 | 4.0 | 20 | |
| | | S-B01-B1-261 | 04/17/15 | 261 | 9 | Performance | 1,700 | 85 ^x | <250 | <0.02 ^j | <0.1 | 14 | 15 | |
| | | S-B01-B1-255 | 04/28/15 | 255 | 15 | Performance | 470 | 72 ^x | <250 | <0.02 ^j | <0.1 | 3.2 | 3.5 | |
| | B2 | S-B01-B1-250 | 05/12/15 | 250 | 20 | Performance | 4,000 | 1,500 ^x | <250 | <0.4 | <0.2 | 29 | 74 | |
| | | S-B01-B1-242 | 05/28/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-B01-B2-255 | 04/28/15 | 255 | 15 | Performance | 840 | 170 ^x | <250 | <0.02 ^j | 6.8 | 3.4 | 7.6 | |
| | | S-B01-B2-250 | 05/12/15 | 250 | 20 | Performance | 4,900 | 1,500 ^x | <250 | <0.4 | 26 | 48 | 250 | |
| | | S-B01-B2-242 | 05/29/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | B3 | S-B01-B3-260 | 05/11/15 | 260 | 10 | Performance | 40 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | S-B01-B3-255 | | 05/11/15 | 255 | 15 | Performance | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | S-B01-B3-250 | | 05/12/15 | 250 | 20 | Performance | 400 | 130 ^x | <250 | <0.02 | <0.02 | 0.57 | 4.2 | |
| | C1 | S-B01-B3-243 | 05/28/15 | 243 | 27 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-C1-255 | 05/13/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-NSW01-C1-250 | 05/22/15 | 250 | 20 | Confirmation | 790 | 130 ^x | <250 | <0.02 ^j | <0.1 | 3.1 | 9.5 | |
| | | S-NSW01-C1-245 | 05/26/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | 0.027 | <0.06 | |
| | | S-WSW01-C1-255 | 04/28/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-B01-C1-255 | 04/28/15 | 255 | 15 | Performance | 3.3 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | C2 | S-B01-C1-250 | 05/12/15 | 250 | 20 | Performance | 2,000 | 680 ^x | <250 | <0.02 ^j | <0.1 | 14 | 15 | |
| | | S-B01-C1-242 | 05/28/15 | 242 | 28 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-WSW01-C2-255 | 04/28/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| | | S-B01-C2-250 | 05/12/15 | 250 | 20 | Performance | 1,500 | 370 ^x | <250 | <0.02 ^j | <0.1 | 11 | 11 | |
| | | C3 | S-B01-C3-255 | 05/11/15 | 255 | 15 | Performance | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | | S-ESW01-B4-265 | 04/24/15 | 265 | 5 | Performance | 410 | 5,200 ^x | 21,000 | <0.02 | <0.02 | 2.1 | 1.7 |
| | Discovery - Shallow (B4,C4,C5) | B4 | S-ESW02-B4-264 | 04/30/15 | 264 | 6 | Performance | <2 | 130 ^x | 600 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | | S-B01-C4-270 | 04/23/15 | 270 | 2 | Performance | 36 | 200 ^x | 320 | <0.02 | 0.12 | 0.12 | 0.74 |
| | | C4 | S-B01-C4-263 | 04/24/15 | 263 | 7 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| S-SSW01-C5-265 | | | 04/24/15 | 265 | 5 | Confirmation | 22 | <50 | 310 | <0.02 | 0.066 | 0.052 | 0.35 | |
| MTCA Cleanup Level for Soil ⁽⁴⁾ | | | | | | | 100/30 ⁽⁵⁾ | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | |



Table 3
Summary of Soil Analytical Results - TPH and BTEX
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Remediation Area | Grid Location | Sample ID | Sample Date | Elevation (amsl) | Sample Depth (feet bgs) | Performance or Confirmation Sample | Analytical Results (milligrams per kilogram) | | | | | | |
|--|---------------|----------------|-------------|------------------|-------------------------|------------------------------------|--|---------------------|---------------------|------------------------|------------------------|-----------------------------|------------------------------|
| | | | | | | | GRPH ⁽¹⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethylbenzene ⁽³⁾ | Total Xylenes ⁽³⁾ |
| Discovery - Deep (B4, B5, C4, C5) | B4 | S-SSW01-B4-245 | 06/01/15 | 245 | 25 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | S-B01-B4-260 | 05/11/15 | 260 | 10 | Performance | 75 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | S-B01-B4-255 | 05/12/15 | 255 | 15 | Performance | 1,500 | 3,000 | 1,400 | <0.02 [†] | <0.1 | 1.3 | 3.6 |
| | | S-B01-B4-250 | 05/12/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | B5 | S-ESW01-B5-255 | 05/12/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | S-SSW01-B5-255 | 05/12/15 | 255 | 15 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | S-B01-B5-261 | 05/01/15 | 261 | 9 | Performance | 1,100 | 3,600 | <250 | <0.02 | <0.02 | 1.0 | 1.7 |
| | C4 | S-NSW01-C4-255 | 05/04/15 | 255 | 15 | Performance | 1,000 | 3,400 | 780 | <0.02 [†] | <0.1 | 0.75 | 0.50 |
| | | S-B01-C4-259 | 05/11/15 | 259 | 11 | Performance | 240 | 740 | <250 | <0.02 | <0.02 | 0.047 | 0.099 |
| | | S-B01-C4-255 | 05/12/15 | 255 | 15 | Performance | 660 | 2,800 | <250 | <0.02 | <0.02 | 0.90 | 1.7 |
| | C5 | S-WSW01-C5-254 | 05/04/15 | 254 | 16 | Performance | 220 | 700 | <250 | <0.02 | <0.02 | 0.13 | 0.12 |
| | | S-SSW01-C5-255 | 05/04/15 | 255 | 15 | Confirmation | 3.6 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| | | S-B01-C5-252 | 05/04/15 | 252 | 18 | Performance | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 |
| S-B01-C5-250 | | 06/02/15 | 250 | 20 | Confirmation | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | |
| MTCA Cleanup Level for Soil⁽⁴⁾ | | | | | | | 100/30⁽⁵⁾ | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 |

NOTES:

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

RED denotes concentration exceeds MTCA cleanup level.

Bold denotes concentration below laboratory detection limit, but exceeding the MTCA cleanup level for soil; the detection limit has been raised due to high concentrations of associated analytes requiring dilution and/or historical cleanup levels that historical detection limits were based upon.

⁽¹⁾Samples analyzed by Method NWTPH-Gx.

⁽²⁾Samples analyzed by Method NWTPH-Dx.

⁽³⁾Analyzed by EPA Method 8021B or 8260C.

⁽⁴⁾MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 Washington Administrative Code, revised November 2007.

⁽⁵⁾100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

Yellow background indicates final bottom confirmation sample.

Laboratory Notes:

[†]The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

^{*}The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit.

amsl - above mean sea level

bgs = below ground surface

BTEX = benzene, toluene, ethylbenzene, and total xylenes

DRPH = diesel-range petroleum hydrocarbons

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

TPH = total petroleum hydrocarbons



Table 4
Summary of UST Product Samples
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Property | Grid Location | Sample ID | Sample Date | Sample Depth (feet bgs) | Analytical Results (milligrams per kilogram) | | | | | | | | | | | | | Flashpoint ⁽⁵⁾ (°F) |
|---------------------------|---------------|-----------|-------------|-------------------------|--|---------------------|---------------------|---------------------|------------------------------|-----------------------------|------------------------------|-------------------------------|---------------------------|------------------------------|-------------------------------|-----------------------------|---------------------|--------------------------------|
| | | | | | GRPH ⁽¹⁾ | DRPH ⁽¹⁾ | ORPH ⁽¹⁾ | VOCs ⁽²⁾ | Total Arsenic ⁽³⁾ | Total Barium ⁽³⁾ | Total Cadmium ⁽³⁾ | Total Chromium ⁽³⁾ | Total Lead ⁽³⁾ | Total Mercury ⁽³⁾ | Total Selenium ⁽³⁾ | Total Silver ⁽³⁾ | PCBs ⁽⁴⁾ | |
| SKS Shell Property | | | | | | | | | | | | | | | | | | |
| SKS | C1 | UST05 | 04/02/15 | -- | <4,000 | D | D | ND | <1 | 20.3 | <1 | <1 | 328 | <1 | <1 | <1 | <2 | 201 |
| SKS | C1 | UST06 | | -- | <4,000 | D | D | ND | <1 | 1.04 | <1 | <1 | 252 | <1 | <1 | <1 | <2 | 91.4 |
| SKS | C2 | UST07 | 04/14/15 | -- | D | <5,000 | D | ND | <1 | 4.89 | <1 | 1.82 | 1,230 | <1 | <1 | <1 | <2 | >200 |

NOTES:

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾ Analyzed by Method NWTPH-HCID. Result of ND indicates material not detected at or above 4,000 mg/kg GRPH; 5,000 mg/kg DRPH; and 25,000 mg/kg ORPH.

⁽²⁾ Analyzed by EPA Method 8260C. VOCs analyzed included PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; vinyl chloride; 1,1-DCE; EDC; 1,1-DCA; 1,1,1-trichloroethene; chloroethane; and methylene chloride. Results listed as ND indicate none of the analytes were detected above laboratory reporting limits.

⁽³⁾ Analyzed by EPA Method 200.8.

⁽⁴⁾ Analyzed by EPA Method 8082A.

⁽⁵⁾ Analyzed by EPA Method 1010/ASTM D93.

-- = not applicable

< = not detected at a concentration exceeding the laboratory reporting limit.

ASTM = American Society for Testing and Materials

bgs = below ground surface

D = detected

DCA = dichloroethane

DCE = dichloroethene

DRPH = diesel-range petroleum hydrocarbons

EDC = 1,2-dichloroethane

EPA = U.S. Environmental Protection Agency

°F = degrees Fahrenheit

GRPH = gasoline-range petroleum hydrocarbons

HCID = hydrocarbon identification

ND = not detected

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

PCB = polychlorinated biphenyl

PCE = tetrachloroethene

TCE = trichloroethene

VOC = volatile organic compound



Table 5
Summary of UST Soil Samples - TPH, BTEX, and Lead
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Property | Grid Location | Sample ID | Sample Date | Elevation (amsl) | Sample Depth (feet bgs) | Analytical Results (milligrams per kilogram) | | | | | | | |
|--|---------------|-----------------|-------------|------------------|-------------------------|--|---------------------|---------------------|------------------------|------------------------|-----------------------------|------------------------------|---------------------------|
| | | | | | | GRPH ⁽¹⁾ | DRPH ⁽²⁾ | ORPH ⁽²⁾ | Benzene ⁽³⁾ | Toluene ⁽³⁾ | Ethylbenzene ⁽³⁾ | Total Xylenes ⁽³⁾ | Total Lead ⁽⁴⁾ |
| SKS | C1 | UST05-NSW01-262 | 04/08/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | C1 | UST05-BTM01-261 | 04/08/15 | 261 | 9 | <2 | 87 ^x | 580 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | B2 | UST06-ESW01-262 | 04/08/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | C2 | UST06-SSW01-263 | 04/08/15 | 263 | 7 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | C1 | UST06-WSW01-262 | 04/08/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | C1 | UST06-BTM01-261 | 04/08/15 | 261 | 9 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | -- |
| SKS | C2 | UST07-NSW01-262 | 04/16/15 | 262 | 8 | <2 | 72 ^x | 420 | <0.02 | <0.02 | <0.02 | <0.06 | 29.9 |
| SKS | C2 | UST07-ESW01-262 | 04/16/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | 3.24 |
| SKS | C2 | UST07-SSW01-262 | 04/16/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | 2.68 |
| SKS | C2 | UST07-WSW01-262 | 04/16/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | 4.14 |
| SKS | C2 | UST07-BTM01-262 | 04/16/15 | 262 | 8 | <2 | <50 | <250 | <0.02 | <0.02 | <0.02 | <0.06 | 3.91 |
| MTCA Cleanup Level for Soil⁽⁵⁾ | | | | | | 100/30⁽⁶⁾ | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | 250 |

NOTES:

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

BOLD denoted concentration exceeds soil disposal acceptable criteria.

⁽¹⁾Samples analyzed by Method NWTPH-Gx.

⁽²⁾Samples analyzed by Method NWTPH-Dx.

⁽³⁾Analyzed by EPA Method 8021B.

⁽⁴⁾Analyzed by EPA Method 200.8.

⁽⁵⁾MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 WAC, revised November 2007.

⁽⁶⁾100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

Laboratory Note:

^xThe sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit.

amsl - above mean sea level

bgs = below ground surface

BTEX = benzene, toluene, ethylbenzene, and total xylenes

DRPH = diesel-range petroleum hydrocarbons

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

TPH = total petroleum hydrocarbons

UST = underground storage tank

WAC = Washington Administrative Code

PROPERTY PHOTOGRAPHS



Photograph 1. Marine Vacuum Services emptying UST05 and UST06.



Photograph 2. Removing UST06.



Photograph 3. UST07.



Photograph 4. Marine Chemist inerting UST07.



Photograph 5. Excavating east wall of the Property to approximately 10 feet bgs.



Photograph 6. The Property excavated to 10 feet bgs.



Photograph 7. Plastic and metal plates placed south of the Property for a loading dock for contaminated soil.



Photograph 8. Excavating down to approximately 15 feet below ground surface, view looking north.



Photograph 9. Excavating to approximately 15 feet below ground surface. Respirators required by all personnel working within the contaminated area.



Photograph 10. Excavating down to approximately 20 feet below ground surface.



Photograph 11. Bottom extent of the excavation area, between 27 and 30 feet below ground surface.



Photograph 12. Final extent of the petroleum contamination excavation at the Property.

PROPERTY PHOTOGRAPHS

Vapor Barrier Install
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

Project No.: 0914-001
Date: September 17, 2015
Drawn By: EBF
Chk By: SES



Photograph 13. Application of Liquid Boot vapor barrier on the eastern sidewall along the basement level. Not visible beneath the Liquid Boot is waterproofing Voltex DSCR and green detailing fabric (VI-20).



Photograph 14. Completed application of Liquid Boot on basement level.



Photograph 15. Close up of detailing around intrusions through the vapor barrier on the northern sidewall, with blue protective fabric applied over the Liquid Boot to protect the Liquid Boot during concrete application.



Photograph 16. Detail of piping through the vapor barrier, with Liquid Boot surrounding the piping.



Photograph 17. Completed Liquid Boot on the upper level of the sidewall with blue protective fabric applied.



Photograph 18. Application of the protective fabric over the Liquid Boot.

PROPERTY PHOTOGRAPHS

Vapor Barrier Install
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

Project No.: 0914-001
Date: September 17, 2015
Drawn By: EBF
Chk By: SES



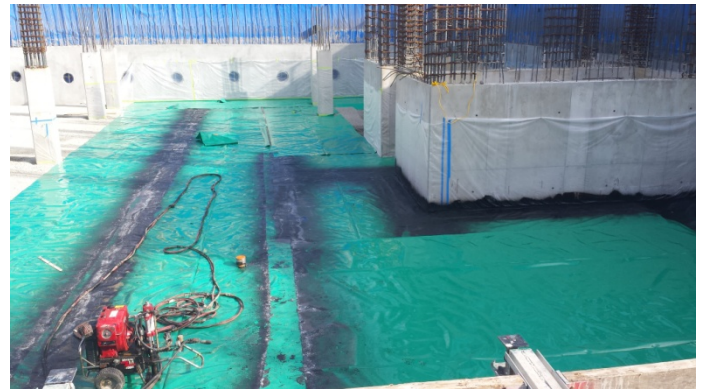
Photograph 19. Cross-sectional cut of sidewall vapor barrier. From bottom: black waterproofing, Voltex DSCR (gray-white layer), green VI-20 detailing fabric, and black Liquid Boot.



Photograph 20. Application of horizontal Liquid Boot layer over the detailing VI-20 fabric. Liquid Boot was sprayed between overlapping layers of fabric.



Photograph 21. Application of Liquid Boot layer up against the sidewall.



Photograph 22. Continuing to install the detailing VI-20 fabric and Liquid Boot horizontal component.



Photograph 23. Completed Liquid Boot installation on the floor of the Property.



Photograph 24. Vapor barrier installation complete, with blue protective fabric installed to protect the barrier.

APPENDIX A
ABATEMENT DOCUMENTATION

Dept. of Labor & Industries, Division of Occupational Safety & Health

Asbestos Project Notification Form

Form ID: 91526##1427Affor813151

Notice Date: 9/15/2014

Start Date: 10/1/2014

Completion Date: 10/19/2014

Status: Amended

Site Work Hours: 8:00 am - 2:30 pm

Site Work Days:

Monday
Tuesday
Wednesday
Thursday
Friday

Contractor: Affordable Environmental, Inc

Job Site C.A.S.: Anthony Chase

Your email address: ci@affenv.net

Contractor Phone Number: 4255128750

Property Owner

Name:

Owner's Agent: Paul kemp

Company: Sound Earth Strategies

Address: 2811 Fairview Ave E, Suite 200

City: Seattle

State: WA

Zip+4: 98102

Phone: 2063061900

Job Site

Address: 4755 Fauntleroy Way SW

Building Name: Huling Brothers

Room:

City: Seattle

Zip + 4: 98115

County: King

Facility

Type: Commercial

Age: 1970's

Size: 3200

Type of activity: Demolition

Quantity of Asbestos to Be Removed Outdoors Indoors

Quantity: 170 square feet

Popcorn ceiling
Other: Window Putty

Quantity: 3200 linear feet

Control Measures

Neg. pres. enclosure
Wet methods
HEPA vacuum
Critical barriers
Manual methods

Respiratory Protection

Type C continuous flow
Other:PPE Pursuant to task

Comments:

Date/Time Submitted

10/8/2014 1:46:50 PM

[View Account History](#)[Create Amendment 201403638-2](#)**Notification Details for Case #: 201403638-1**Transaction Date **09/15/14**

Owner's Name **Sound Earth Strategies**
Project Street Address **4755 Fauntleroy Way**
City **Seattle**
Contact Person **Paul Kemp**
Mailing Address **2811 Fairview Ave E, Suite 200**
Seattle, WA 98102

Phone **(206) 306-1900**
Zip **98116**
Phone **(206) 306-1900**

This project includes asbestos removal.

Project Size **3200 linear feet / 170 square feet**
Project Start Date **09/25/14** Completion Date **10/19/14**
Asbestos will be removed by **a licensed asbestos abatement contractor**
Contractor **Affordable Environmental Inc.**
Contact **Anthony Chase**
Mailing Address **PO Box 40**
Mountlake Terrace, WA 98043

Contractor Job # **1189 D**
Phone **(425) 512-8750**

Note: Notifications cannot be amended after the completion date.



AFFORDABLE ENVIRONMENTAL, INC.

P.O. BOX 40 MOUNTLAKE TERRACE, WA 98043
(425) 512-8750 FAX (425) 212-9805

CERTIFICATE OF COMPLETION

Affordable Environmental, Inc. performed asbestos removal and disposal services at the following address per asbestos survey:

Whittaker Project West Seattle 98116

Be assured that all activities performed were conducted in accordance with all current and applicable environmental **regulations** and contract specifications.

Any **air monitoring** required by statutes was performed. Clearance air sampling verified air was clean by current state and national standards.

Regulated waste was deposited in accordance with EPA guidelines. An approved landfill facility is required to forward documentation of this within 45 days of disposal.

Asbestos liability **insurance** and a contractor's surety bond were in effect during these operations.

Note: Affordable Environmental, Inc. submitted notification to Puget Sound Clean Air Agency (PSCAA) and the Department of Labor & Industries, Division of Occupational Safety & Health prior to starting this project.

Please contact our customer service representative at (425) 512-8750 between 7:00 AM and 3:30 PM Monday through Friday if you have any questions or need additional documentation.

Sincerely,

Anthony M Chase
President AEI

APPENDIX B
BORING LOGS



Project: SKS Shell Property
Project Number: 0914-001
Logged by: EBF
Date Started: 9/1/15
Surface Conditions: Gravel
Well Location N/S: 9 ft south of NE property corner
Well Location E/W: 50 ft west of NE property corner
Reviewed by: CER
Date Completed: 9/1/15

BORING LOG | MW108

Site Address: 3901 SW Alaska Street
Seattle, Washington

Water Depth At Time of Drilling NA feet bgs
Water Depth After Completion 8.6 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Backfill. | |
| 5 | | | | | | | | Drill straight to well depth. No soil samples. | |
| 10 | | | | | | | | Refusal at 12.5 feet bgs. Set monitoring well. | |
| 15 | | | | | | | | | |

Drilling Co./Driller: ESN/Richard
Drilling Equipment: LAR Probe
Sampler Type: --
Hammer Type/Weight: -- lbs
Total Boring Depth: 12.5 feet bgs
Total Well Depth: 12.5 feet bgs
State Well ID No.: BJC 823

Well/Auger Diameter: 3/4" well inches
Well Screened Interval: 2.5 to 12.5 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount



Notes/Comments:

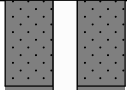
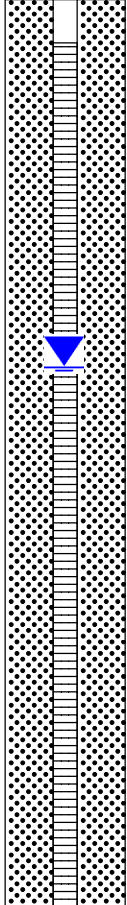


Project: SKS Shell Property
Project Number: 0914-001
Logged by: EBF
Date Started: 9/1/15
Surface Conditions: Gravel
Well Location N/S: 8 ft south of NE property corner
Well Location E/W: 10 ft west of NE property corner
Reviewed by: CER
Date Completed: 9/1/15

BORING LOG | MW109

Site Address: 3901 SW Alaska Street
Seattle, Washington

 **Water Depth At Time of Drilling** NA feet bgs
 **Water Depth After Completion** 6.6 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|--|
| 0 | | | | | | | | Backfill. |  |
| 5 | | | | | | | | Drill straight to well depth, no soil samples. |  |
| 10 | | | | | | | | | |
| 15 | | | | | | | | End of boring at 13 feet bgs. Set monitoring well. | |

Drilling Co./Driller: ESN/Richard
Drilling Equipment: LAR Probe
Sampler Type: --
Hammer Type/Weight: -- lbs
Total Boring Depth: 13 feet bgs
Total Well Depth: 13 feet bgs
State Well ID No.: BJC 822

Well/Auger Diameter: 3/4" well inches
Well Screened Interval: 3 to 13 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001
Logged by: EBF
Date Started: 9/1/15
Surface Conditions: Gravel
Well Location N/S: 79 ft south of NE property corner
Well Location E/W: 7 ft west of NE property corner
Reviewed by: CER
Date Completed: 9/1/15

BORING LOG | MW110

Site Address: 3901 SW Alaska Street
Seattle, Washington

Water Depth At Time of Drilling NA feet bgs
Water Depth After Completion 5.5 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Gravel. Backfill. | |
| 5 | | | | | | | | Drill straight to well depth. No soil samples. | |
| 10 | | | | | | | | Refusal at 12 feet bgs. Set monitoring well. | |
| 15 | | | | | | | | | |

Drilling Co./Driller: ESN/Richard
Drilling Equipment: LAR Probe
Sampler Type: --
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: 12 feet bgs
State Well ID No.: BJC 821

Well/Auger Diameter: 1" well inches
Well Screened Interval: 2 to 12 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:



Project: SKS Shell
Project Number: 0914-004
Logged by: DMM
Date Started: 2/20/2013
Surface Conditions: Concrete
Well Location N/S: 3' north of MW104
Well Location E/W: 4' east of MW-1
Reviewed by: CCC
Date Completed: 2/20/2013

BORING LOG | **RW01**
 RW01

Site Address: Fauntleroy Way SW and Alaska Street
 Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 23.80 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 0 | | | | | | | | 6" of concrete cored at surface. Boring cleared by vac-truck to 7' bgs prior to drilling. | |
| 5 | | | | | | | | | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |

Drilling Co./Driller: Cascade/Jeremiah
Drilling Equipment: HSA LAR
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BHS 937

Well/Auger Diameter: 2/4.25-10.25 inches
Well Screened Interval: 25-40 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite Chips
Monument Type: Flush Mount

Notes/Comments:
 Boring advanced with 4.25" i.d. auger for sample collection; overdrilled for well install with larger auger.



Project: SKS Shell
Project Number: 0914-004
Logged by: DMM
Date Started: 2/20/2013
Surface Conditions: Concrete
Well Location N/S: 3' north of MW104
Well Location E/W: 4' east of MW-1
Reviewed by: CCC
Date Completed: 2/20/2013

BORING LOG | **RW01**
 RW01

Site Address: Fauntleroy Way SW and Alaska Street
 Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
 Water Depth After Completion 23.80 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 15 | 50/6" | 200 | | 15.9 | RW01-15 | SM | | Damp, very dense, silty fine SAND, brown, faint hydrocarbon odor (15, 85, 0). | |
| | 50/6" | 300 | | 38.0 | RW01-17.5 | SM | | Damp, very dense, silty fine SAND, brown, moderate hydrocarbon odor (15, 85, 0). | |
| 20 | 50/4" | 300 | | 352 | RW01-20 | SM | | Damp, very dense, silty fine SAND, brown, strong hydrocarbon odor (15, 85, 0). | |
| | 50/6" | 100 | | 24.6 | RW01-22.5 | SM | | Moist, very dense, silty fine SAND, gray, strong hydrocarbon odor (15, 85, 0). | |
| 25 | 50/6" | 100 | | 27.4 | RW01-25 | SM | | Wet, very dense, silty fine SAND, brown with gray, moderate hydrocarbon odor (15, 85, 0). | |
| 30 | | | | | | | | | |

Drilling Co./Driller: Cascade/Jeremiah
Drilling Equipment: HSA LAR
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BHS 937

Well/Auger Diameter: 2/4.25-10.25 inches
Well Screened Interval: 25-40 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite Chips
Monument Type: Flush Mount

Notes/Comments:
 Boring advanced with 4.25" i.d. auger for sample collection; overdrilled for well install with larger auger.



Project: SKS Shell
Project Number: 0914-004
Logged by: DMM
Date Started: 2/20/2013
Surface Conditions: Concrete
Well Location N/S: 3' north of MW104
Well Location E/W: 4' east of MW-1
Reviewed by: CCC
Date Completed: 2/20/2013

BORING LOG | **RW01**
 RW01

Site Address: Fauntleroy Way SW and Alaska Street
 Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 23.80 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 30 | 50/6" | 300 | | 23.7 | RW01-30 | SM | | Wet, very dense, silty fine SAND, brown, faint hydrocarbon odor (15, 85, 0). | |
| 35 | 50/6" | 100 | | 38.2 | RW01-35 | SM | | Wet, very dense, silty fine SAND, brown, moderate hydrocarbon odor (15, 85, 0). | |
| 40 | 50/6" | 100 | | 27.4 | RW01-40 | SM | | Wet, very dense, silty fine SAND, brown, moderate hydrocarbon odor (25, 75, 0). | |
| 45 | | | | | | | | Boring terminated at 40.5 feet below ground surface (bgs). Two-inch diameter well installed to a depth of 40 feet bgs, screened from 25 to 40 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as well RW01. | |

Drilling Co./Driller: Cascade/Jeremiah
Drilling Equipment: HSA LAR
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BHS 937

Well/Auger Diameter: 2/4.25-10.25 inches
Well Screened Interval: 25-40 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite Chips
Monument Type: Flush Mount

Notes/Comments:
 Boring advanced with 4.25" i.d. auger for sample collection; overdrilled for well install with larger auger.



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/9/14
Surface Conditions: Concrete
Well Location N/S: 8.5 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/10/14

BORING LOG | RW02

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
 Water Depth After Completion 22.24 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|---------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). | |
| 5 | | 0 | 0 | | | | | No recovery. | |
| 10 | | 0 3 10 | 60 | 0.0 | RW02-10 | SM | | Moist, medium dense, silty SAND, brown, no petroleum hydrocarbon odor (40-60-0). | |
| 15 | | 8 12 12 | 100 | 0.2 | RW02-15 | SM | | Moist, medium dense, silty SAND, gray, no petroleum hydrocarbon odor (30-70-0). | |
| 20 | | 6 11 16 | 100 | 0.9 | RW02-20 | SM | | Moist, medium dense, silty SAND, grayish brown, no petroleum hydrocarbon odor (40-60-0). | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40 feet bgs
Total Well Depth: 39.5 feet bgs
State Well ID No.: BIP 867

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 24.4 to 39.4 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/9/14
Surface Conditions: Concrete
Well Location N/S: 8.5 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/10/14

BORING LOG | RW02

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
 Water Depth After Completion 22.24 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|---|----------------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 25 | 9 15 17 | | 50 | 32.7 | RW02-25 | ML | | Moist to wet, hard, sandy SILT, gray to brown, weak petroleum hydrocarbon odor (65-35-0). | |
| 30 | 10 12 15 | | 100 | 28.2 | RW02-30 | SM ML | | Moist, medium dense, silty SAND, gray, mild petroleum hydrocarbon odor (35-65-0). Moist, very stiff, sandy SILT, weak petroleum hydrocarbon odor (65-35-0). | |
| 35 | 9 14 18 | | 100 | 8.2 | RW02-35 | ML | | Wet, hard, sandy SILT, brown, mild petroleum hydrocarbon odor (65-35-0). | |
| 40 | 15 17 31 | | 100 | | RW02-40 | ML | | Wet, hard, fine sandy SILT, brown, no petroleum hydrocarbon odor (80-20-0). | |
| <p>Boring was terminated at 40 feet below ground surface (bgs). Four-inch-diameter well RW02 was installed to a depth of 39.4 feet bgs, screened from 24.4 to 39.4 feet bgs, silica sand from 21 to 40 feet bgs, bentonite seal from 1.5 to 21 feet bgs, concrete from 0 to 1.5 feet bgs, and finished at surface grade with a flushmount monument.</p> | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40 feet bgs
Total Well Depth: 39.5 feet bgs
State Well ID No.: BIP 867

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 24.4 to 39.4 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/10/14
Surface Conditions: Concrete
Well Location N/S: 26 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/10/14

BORING LOG | RW03

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.34 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). Drilled to 41 feet below ground surface (bgs) with no samples collected. | |
| 5 | | | | | | | | | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 41 feet bgs
Total Well Depth: 39.6 feet bgs
State Well ID No.: BIP 868

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 24.6 to 39.6 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/10/14
Surface Conditions: Concrete
Well Location N/S: 26 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/10/14

BORING LOG | RW03

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.34 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------------------|--|-----------------------------|
| 25 | | | | | | | | <p>Drilled to 41 feet bgs with no samples collected.</p> <p>Strong petroleum hydrocarbon odor in soil cuttings.</p> | |
| 30 | | | | | | | Wet at 30 feet bgs. | | |
| 35 | | | | | | | | | |
| 40 | | | | | | | | | |
| 45 | | | | | | | | <p>Boring was terminated at 41 feet bgs. Four-inch-diameter well RW03 was installed to a depth of 39.6 feet bgs, screened from 24.6 to 39.6 feet bgs, silica sand from 21 to 41 feet bgs, bentonite seal from 2 to 21 feet bgs, concrete from 0 to 2 feet bgs, and finished at surface grade with a flushmount monument.</p> | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 41 feet bgs
Total Well Depth: 39.6 feet bgs
State Well ID No.: BIP 868

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 24.6 to 39.6 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/10/14
Surface Conditions: Concrete
Well Location N/S: 42 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/11/14

BORING LOG | RW04

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 24 feet bgs
Water Depth After Completion 23.08 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|---------------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). | |
| 5 | 0 0 2 | | 25 | 0.0 | RW04-05 | SM | | Moist, very loose, silty SAND, brown, no petroleum hydrocarbon odor (30-70-0). | |
| 10 | 6 14 21 | | 100 | 1.9 | RW04-10 | SM | | Moist, medium dense, silty SAND, gray, no petroleum hydrocarbon odor (35-65-0). | |
| 15 | 5 11 16 | | 100 | 21.2 | RW04-15 | SM | | Moist, medium dense, silty fine SAND, gray, weak petroleum hydrocarbon odor (30-65-0). | |
| 20 | 7 12 17 | | 75 | 534 | RW04-20 | SM | | Same as above with strong petroleum hydrocarbon odor. | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 869

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/10/14
Surface Conditions: Concrete
Well Location N/S: 42 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/11/14

BORING LOG | RW04

Site Address: 3901 SW Alaska Street
 Seattle, WA

Water Depth At Time of Drilling 24 feet bgs
Water Depth After Completion 23.08 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 25 | 13 17 21 | | 100 | 52.8 | RW04-25 | SM | | Wet, dense, silty fine SAND, gray, strong petroleum hydrocarbon odor (35-65-0). | |
| 30 | 10 15 21 | | 100 | 15.8 | RW04-30 | SM | | Wet, dense, silty fine SAND, brown, moderate petroleum hydrocarbon odor (35-65-0). | |
| 35 | 9 19 20 | | 100 | 6.0 | RW04-35 | SM | | Same as above, moderate petroleum hydrocarbon odor. | |
| 40 | 13 18 21 | | 100 | 3.8 | RW04-40 | ML | | Wet, hard, fine sandy SILT with trace clay, gray, faint petroleum hydrocarbon odor (60-40-0). | |
| 45 | | | | | | | | Boring was terminated at 40.5 feet below ground surface (bgs). Four-inch-diameter well RW04 was installed to a depth of 40 feet bgs, screened from 25 to 40 feet bgs, silica sand from 22 to 40.5 feet bgs, bentonite seal from 2 to 22 feet bgs, concrete from 0 to 2 feet bgs, and finished at surface grade with a flushmount monument. | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 869

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/16/14
Surface Conditions: Concrete
Well Location N/S: 56.5 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/16/14

BORING LOG | RW05

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.51 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). Strong petroleum hydrocarbon odor in soil directly beneath concrete slab to approximately two feet below ground surface (bgs). | |
| 5 | | | | | | | | Drilled to 40.5 feet bgs with no samples collected. | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 874

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/16/14
Surface Conditions: Concrete
Well Location N/S: 56.5 feet North of NE corner of Bldg
Well Location E/W: 19.5 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/16/14

BORING LOG | RW05

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.51 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 25 | | | | | | | | Drilled to 40.5 feet bgs with no samples collected. | |
| 30 | | | | | | | | Wet at 30 feet bgs. | |
| 35 | | | | | | | | <p>Boring was terminated at 40.5 feet bgs. Four-inch-diameter well RW05 was installed to a depth of 40.5 feet bgs, screened from 25.5 to 40.5 feet bgs, silica sand from 20.5 to 40.5 feet bgs, bentonite seal from 3 to 20.5 feet bgs, concrete from 0 to 3 feet bgs, and finished at surface grade with a flushmount monument.</p> | |
| 40 | | | | | | | | | |
| 45 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 874

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/15/14
Surface Conditions: Concrete
Well Location N/S: 85 feet North of NE corner of Bldg
Well Location E/W: 9 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/15/14

BORING LOG | RW06

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.84 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). Drilled to 40.5 feet below ground surface (bgs) with no samples collected. | |
| 5 | | | | | | | | | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 873

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:

Page: | **1 of 2**



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/15/14
Surface Conditions: Concrete
Well Location N/S: 85 feet North of NE corner of Bldg
Well Location E/W: 9 feet East of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/15/14

BORING LOG | RW06

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 23.84 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 25 | | | | | | | | <p>Drilled to 40.5 feet bgs with no samples collected.</p> <p>Strong petroleum hydrocarbon odor in soil cuttings.</p> | |
| 30 | | | | | | | | <p>Wet at 30 feet bgs.</p> | |
| 35 | | | | | | | | | |
| 40 | | | | | | | | | |
| 45 | | | | | | | | <p>Boring was terminated at 40.5 feet bgs. Four-inch-diameter well RW06 was installed to a depth of 40 feet bgs, screened from 25 to 40 feet bgs, silica sand from 21 to 40.5 feet bgs, bentonite seal from 3 to 21 feet bgs, concrete from 0 to 3 feet bgs, and finished at surface grade with a flushmount monument.</p> | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 873

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/15/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 4 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/15/14

BORING LOG | RW07

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 24.10 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|---------------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). | |
| 5 | 2 2 3 | | 30 | 4.0 | RW07-05 | ML | | Moist, medium stiff, sandy SILT, trace clay, brown, no petroleum hydrocarbon odor (80-20-0). | |
| 10 | 1 | | 15 | 8.7 | RW07-10 | ML | | Moist, very soft, sandy SILT, brown, no petroleum hydrocarbon odor (65-35-0). | |
| 15 | 8 17 20 | | 60 | 2.1 | RW07-15 | SM | | Moist, medium dense, silty SAND, trace gravel, brown and gray, no petroleum hydrocarbon odor (30-65-5). | |
| 20 | 7 13 17 | | 75 | 109.4 | RW07-20 | SM | | Moist, medium dense, silty fine SAND, gray, strong petroleum hydrocarbon odor (15-85-0). | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 872

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/15/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 4 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/15/14

BORING LOG | RW07

Site Address: 3901 SW Alaska Street
 Seattle, WA

Water Depth At Time of Drilling 25 feet bgs
 Water Depth After Completion 24.10 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------------|------------|------------|------------|-----------|------------|---------|--|-----------------------------|
| 25 | 12 17 23 | | 70 | 11.0 | RW07-25 | SM | | Wet, dense, silty fine SAND, gray with some brown, moderate petroleum hydrocarbon odor (15-85-0). | |
| 30 | 11 15 22 | | 70 | 33.8 | RW07-30 | SM | | Same as above, moderate petroleum hydrocarbon odor. | |
| 35 | 10 19 25 | | 100 | 3.4 | RW07-35 | SM | | Wet, dense, silty fine SAND, grayish brown, no petroleum hydrocarbon odor (15-85-0). | |
| 40 | 10 13 19 | | 100 | 3.7 | RW07-40 | SM | | Wet, dense, silty fine SAND, grayish brown, no petroleum hydrocarbon odor (25-75-0). | |
| 45 | | | | | | | | Boring was terminated at 40.5 feet below ground surface (bgs). Four-inch-diameter well RW07 was installed to a depth of 40 feet bgs, screened from 25 to 40 feet bgs, silica sand from 21 to 40.5 feet bgs, bentonite seal from 2.5 to 21 feet bgs, concrete from 0 to 2.5 feet bgs, and finished at surface grade with a flushmount monument. | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40 feet bgs
State Well ID No.: BIP 872

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25 to 40 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount



Notes/Comments:


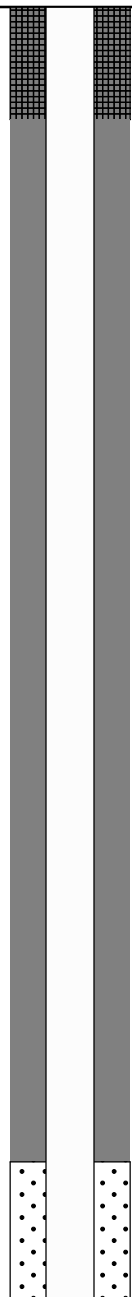


Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/14/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 17 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/14/14

BORING LOG | RW08

Site Address: 3901 SW Alaska Street
Seattle, WA

 **Water Depth At Time of Drilling** 30 feet bgs
 **Water Depth After Completion** 24.8 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---|--|--|
| 0 | | | | | | |  | Concrete (6 inches thick). Drilled to 40.5 feet below ground surface (bgs) with no samples collected. |  |
| 5 | | | | | | | | | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 871

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/14/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 17 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/14/14

BORING LOG | RW08

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 24.8 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------|------------|------------|------------|-----------|------------|---|---|-----------------------------|
| 25 | | | | | | | | Drilled to 40.5 feet bgs with no samples collected. | |
| 30 | | | | | | | Wet at 30 feet bgs. Weak petroleum hydrocarbon odor associated with groundwater. | | |
| 40 | | | | | | | Boring was terminated at 40.5 feet bgs. Four-inch-diameter well RW08 was installed to a depth of 40.5 feet bgs, screened from 25.5 to 40.5 feet bgs, silica sand from 20.5 to 40.5 feet bgs, bentonite seal from 2 to 20.5 feet bgs, concrete from 0 to 2 feet bgs, and finished at surface grade with a flushmount monument. | | |
| 45 | | | | | | | | | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 871

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/11/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 34.5 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/14/15

BORING LOG | RW09

Site Address: 3901 SW Alaska Street
Seattle, WA

Water Depth At Time of Drilling 24 feet bgs
Water Depth After Completion 25.5 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|---------------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 0 | | | | | | | | Concrete (6 inches thick). | |
| 5 | 1 1 3 | | 40 | 0.0 | RW09-05 | SM | | Moist, very loose, silty SAND, trace gravel, brown, no petroleum hydrocarbon odor (40-45-5) (Fill). | |
| 10 | 4 6 6 | | 60 | 6.3 | RW09-10 | SM ML | | Same as above, no petroleum hydrocarbon odor. Moist, stiff, sandy SILT, gray, no petroleum hydrocarbon odor (60-40-0). | |
| 15 | 7 18 23 | | 100 | 1,054 | RW09-15 | SM | | Moist, dense, silty fine SAND, gray, strong petroleum hydrocarbon odor (40-60-0). | |
| 20 | 9 13 22 | | 65 | 15.9 | RW09-20 | SM | | Moist, dense, silty fine SAND, gray, weak petroleum hydrocarbon odor (35-65-0). | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 870

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:



Project: SKS Shell Property
Project Number: 0914-001-10
Logged by: CMP
Date Started: 7/11/14
Surface Conditions: Concrete
Well Location N/S: 84 feet North of NE corner of Bldg
Well Location E/W: 34.5 feet West of NE corner of Bldg
Reviewed by: JAC/CCC
Date Completed: 7/14/15

BORING LOG | **RW09**

Site Address: 3901 SW Alaska Street
 Seattle, WA

Water Depth At Time of Drilling 24 feet bgs
Water Depth After Completion 25.5 feet bgs

| Depth (feet bgs) | Interval | Blow Count | % Recovery | PID (ppmv) | Sample ID | USCS Class | Graphic | Lithologic Description | Well Detail/ Water Depth |
|------------------|----------------|------------|------------|------------|-----------|------------|---------|---|-----------------------------|
| 25 | 13 18 22 | | 80 | 15.7 | RW09-25 | SM | | Wet, dense, silty fine SAND, gray, moderate petroleum hydrocarbon odor (40-60-0). | |
| 30 | 10 28 27 | | 100 | 0.0 | RW09-30 | ML | | Wet, hard, SILT with fine sand, brown, no petroleum hydrocarbon odor (75-25-0). | |
| 35 | 10 13 21 | | 100 | 0.0 | RW09-35 | ML | | Same as above, no petroleum hydrocarbon odor (75-25-0). | |
| 40 | 5 15 18 | | 100 | 0.0 | RW09-40 | ML | | Wet, hard, SILT, some fine sand, gray, no petroleum hydrocarbon odor (90-10-0). | |
| 45 | | | | | | | | <p>Boring was terminated at 40.5 feet below ground surface (bgs). Four-inch-diameter well RW09 was installed to a depth of 40 feet bgs, screened from 25.5 to 40 feet bgs, silica sand from 20.5 to 40.5 feet bgs, bentonite seal from 3 to 20.5 feet bgs, concrete from 0 to 3 feet bgs, and finished at surface grade with a flushmount monument.</p> | |

Drilling Co./Driller: Holt/Derek
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 140 lbs
Total Boring Depth: 40.5 feet bgs
Total Well Depth: 40.5 feet bgs
State Well ID No.: BIP 870

Well/Auger Diameter: 4" ID/10" OD inches
Well Screened Interval: 25.5 to 40.5 feet bgs
Screen Slot Size: 0.10 inches
Filter Pack Used: #10/20
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flushmount

Notes/Comments:

APPENDIX C
DEWATERING SYSTEM MASS CALCULATIONS



Table C-2
Assumption for Mass Balance
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

Porosity

The porosity value of 0.20 was estimated by a licensed Professional Geologist and Professional Hydrogeologist based on the available data and their professional experience. The data reviewed included the sieve analysis from MW104 and the geology beneath the Property/Site from the boring logs.

Mass Partitioning

The mass was partitioned between soil and groundwater based on soil and groundwater samples collected from the Property/Site.

The area of impacted soil and groundwater is based on the soil and groundwater samples collected from the Property/Site.

Soil Mass Estimate

Based on soil analytical data across the Property/Site, there are soil exceedances above the Washington State Model Toxics Control Act Method A cleanup levels for chemicals of concern from 12 to 25 feet below ground surface for an impacted soil thickness of 13 feet.

Based on the presence of separate-phase hydrocarbons in GLMW-2, it was assumed that the soil is saturated around the underground storage tank bed, which is why product is evident in GLMW-2. A gasoline-range petroleum hydrocarbon concentration of 25,000 milligrams per kilogram (mg/kg) was assumed for the soil saturation limit.

For the remaining impacted soil area, we evaluated the average concentration from 12 to 17 feet below ground surface (bgs), 18 to 22 feet bgs, and 23 to 25 feet bgs. The average concentration for each range was 1,356, 2,755, and 609 mg/kg, respectively. We used the highest concentration average of 2,750 mg/kg from 18 to 22 feet bgs and applied that to the remaining area for a conservatively high mass estimate.

Groundwater Mass Estimate

Based on the analytical results from wells screened on the Property/Site, it was assumed that impacts to saturated zone extend from approximately 23 to 40 feet bgs for an impacted groundwater zone 17 feet thick.

Based on the presence of separate-phase hydrocarbons in GLMW-2, we extended an 8-foot radius around the well.

The groundwater concentration assumed for the remaining area of the groundwater plume was based on the historical average groundwater concentrations, a conservative approach.

Uncertainties

Concentration ranges for soil and groundwater are based on the historical laboratory analytical data for the Property/Site.

Extent of soil and groundwater contamination beneath the building and underground storage tank bed.

The extent of soil contamination/mass in the right-of-way can be further refined after the installation of the remaining 7 dewatering/remediation wells.



Table C-3
Actual Volume and Mass Calculations for GRPH in Groundwater
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Sample Date | Pore Volume | Extracted Groundwater | | Hydrocarbon Recovery—Aqueous-Phase | | | | | |
|-------------|-------------|------------------------------------|------------------------------------|---|-------------------------------------|---|--|--|---|
| | | Discharge Flow Totalizer (gallons) | Recovered Between Visits (gallons) | GRPH | | | Benzene | | |
| | | | | Influent GRPH Concentration ⁽¹⁾ (µg/L) | GRPH Removed ⁽²⁾⁽³⁾ (lb) | Cumulative Removed ⁽³⁾⁽⁴⁾ (lb) | Influent Benzene Concentration ⁽¹⁾ (µg/L) | Benzene Removed ⁽²⁾⁽³⁾ (lb) | Cumulative Removed ⁽³⁾⁽⁴⁾ (lb) |
| 04/06/15 | 1 | 45,000 | 45,000 | 3,100 | 1.2 | 1 | 78 | 0.03 | 0.03 |
| 04/13/15 | 2 | 90,000 | 45,000 | 5,300 | 2.0 | 3 | 333 | 0.13 | 0.15 |
| 05/29/15 | 3 | 135,780 | 45,780 | 1,300 | 0.5 | 4 | 60 | 0.02 | 0.18 |

NOTES:

⁽¹⁾Influent samples collected prior to discharging into the water storage tank and being removed by Marine Vacuum Services.

µg/L = micrograms per liter

⁽²⁾Mass removal weight (lb) = gallons recovered x concentration (µg/L) x conversion factor (8.344E-9 lb-L/µg-gallon).

GRPH = gasoline-range petroleum hydrocarbons

⁽³⁾Nondetectable influent concentrations assumed to be 50% of the laboratory's lower reporting limit. Removal rates based upon this assumption are shown in *italics*.

lb = pound(s)

⁽⁴⁾Cumulative mass of GRPH or benzene removed (lb) = mass removal between sampling visits (lb) + previous cumulative total (lb).



Table C-4
Groundwater Laboratory Analytical Results for Dewatering System Performance
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | | | | |
|--|-------------|---------------------|---------------------|---------------------|------------------------|------------------------|-----------------------------|------------------------------|
| Sample Location | Sample Date | GRPH ⁽²⁾ | DRPH ⁽³⁾ | ORPH ⁽³⁾ | Benzene ⁽⁴⁾ | Toluene ⁽⁴⁾ | Ethylbenzene ⁽⁴⁾ | Total Xylenes ⁽⁴⁾ |
| Groundwater Influent | | | | | | | | |
| HOLDING TANK | 04/06/15 | 3,100 | 1,100 ^x | <250 | 78 | 9.3 | 120 | 460 |
| RW02 | 04/13/15 | 4,400 | 2,800 ^x | 440 ^x | <1 | 2.7 | 120 | 520 |
| RW04 | 04/13/15 | 7,100 | 2,200 ^x | 370 ^x | 120 | 23 | 400 | 890 |
| RW07 | 04/13/15 | 4,900 | 6,800 ^x | 920 ^x | 1,200 | 16 | 8.3 | 58 |
| RW09 | 04/13/15 | 4,800 | 2,200 ^x | 440 ^x | 13 | 25 | 150 | 56 |
| HOLDING TANK | 05/29/15 | 1,300 | 1,400 | <250 | 60 | 2.8 | 7.7 | 100 |

NOTES:

⁽¹⁾Sample location is given in the first column and is assumed to be representative of the pore volume.

⁽²⁾Analyzed by Method NWTPH-Gx.

⁽³⁾Analyzed by Method NWTPH-Dx

⁽⁴⁾Analyzed by U.S. Environmental Protection Agency Method 8060C.

Laboratory Note:

^xThe sample chromatographic pattern does not resemble the fuel standard used for quantitation.

< = not detected at concentration above the laboratory's lower reporting limit

DRPH = diesel range petroleum hydrocarbons

GRPH = gasoline range petroleum hydrocarbons

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil range petroleum hydrocarbons

APPENDIX D
UST DECOMMISSIONING DOCUMENTS



DEPARTMENT OF
ECOLOGY
State of Washington

Request to Waive 30 Day Waiting Period

****To be completed by Person Submitting Request****

UST ID # (if known): _____

Full Site Address: 3901 SW Alaska Street, Seattle WA

Owner/ Operator: LMI West Seattle

Contact Phone #: 206-708-2296

Waiver Requested for 30 Day Notice to:

(Circle one or both)

DECOMMISSION

INSTALL

Person and Company Submitting Request: Rob Roberts w/SoundEarth Strategies

Contact phone #: 206-245-1184

Reason for Submitting Request: ENVIRONMENTAL HAZARD

HEALTH HAZARD

(Circle all that apply)

OTHER

Explain Reason: Two USTs are holding up construction project

Date Request Submitted: April 2, 2015

Date and Time of Construction: April 2-3, 2015

| For all that apply | Name | Contact Phone Number | ICC Certification Number |
|--------------------|------------------|----------------------|--------------------------|
| INSTALLER | | | |
| DECOMMISSIONER | Filco | 206-547-8384 | 1033517 |
| SITE ASSESSOR | Elizabeth Forbes | 802-238-3203 | 8163382 |

Completed 30 Day Notice Attached to Waiver Request Form?

(Circle one)

YES

NO

Department of Ecology Response to Request (to be completed by UST Inspector):

WAVIER GRANTED

WAIVER DENIED

Inspector: *Andrew H. Tucke*

Signature and Date: *[Signature]* 04/03/2015

****DECOMMISSIONER(S) SHALL HAVE A COPY OF 30 DAY NOTICE AND A COPY OF THE WAIVER REQUEST FORM ON SITE DURING ALL DECOMMISSIONING RELATED ACTIONS *****



DEPARTMENT OF
ECOLOGY
State of Washington

UNDERGROUND STORAGE TANK (UST) 30-DAY NOTICE

(See back of form for instructions)

| | |
|---------------------|-------|
| FOR OFFICE USE ONLY | |
| Site ID # | _____ |
| FS ID # | _____ |
| | |

Please the appropriate box: Intent to Install Intent to Close

HQ (360)407-7170 / Central (509)575-2490 / Eastern (509)329-3400 / Northwest (425)649-7000 / Southwest (360)407-6300

| SITE INFORMATION | | OWNER INFORMATION (this form will be returned to this address) | |
|-----------------------|----------------------|---|----------------------------|
| Tag or UBI number | ALASKA STREET TEXACO | UST Owner/Operator | LMI WEST SEATTLE |
| Site Name | 3501 SW ALASKA ST | Mailing Address/PO Box | 1325 4th AVE. Suite 1700 |
| Site Physical Address | SEATTLE | City | Seattle WA 98101 |
| City | | Owner/Operator Phone Number | Kelley Kohout 206-708-2296 |
| Site Phone Number | | Owner/Operator Email Address | Kelley.Kohout@lennar.com |

| TANK INFORMATION | | | | |
|------------------|------------------|----------|-----------------------------------|------------------------------------|
| Tank ID | Substance Stored | Capacity | Date Project is Expected to Begin | Comments: |
| VST05 | UNKNOWN | 500 Gal | APRIL 2015 | SEE ATTACHED 30-DAY WAIVER REQUEST |
| VST06 | UNKNOWN | 1000 Gal | APRIL 2015 | |
| | | | | |

1) SERVICE PROVIDER INFORMATION - check the appropriate boxes

PLEASE NOTE: INDIVIDUALS PERFORMING UST SERVICES MUST BE ICC CERTIFIED OR HAVE PASSED ANOTHER QUALIFYING EXAM APPROVED BY THE DEPARTMENT OF ECOLOGY.

Installer Decommissioner Site Assessor

| | | | |
|---------------------------------|---------------|-----------------------|-------------------|
| Service Provider Company Name | Filco | Contact Person | Nathan Montgomery |
| Certified Service Provider Name | James Leonard | Contact Phone Number | 206-547-8384 |
| ICC Certification # | 1033517 | Contact Email Address | nate@filcoenv.com |

2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MORE THAN ONE PROVIDER) - check the appropriate boxes

Installer Decommissioner Site Assessor

| | | | |
|---------------------------------|-------------|-----------------------|----------------------------|
| Service Provider Company Name | SOUND EARTH | Contact Person | RUB ROBERTS |
| Certified Service Provider Name | LIZ FORBES | Contact Phone Number | 206-245-1184 |
| ICC Certification # | 8163382 | Contact Email Address | rroberts@soundearthinc.com |

Imke, Andrew (ECY)

From: Rob Roberts [rroberts@soundearthinc.com]
Sent: Thursday, April 02, 2015 12:51 PM
To: Imke, Andrew (ECY)
Cc: Goldstein, Libby (ECY)
Subject: SKS Alaska Street Texaco 30-day wiaver
Attachments: 3901 SW Alaska 30 Day Waiver Request Apr02 2015.doc.pdf

Hi Drew,

Today we encountered 2 USTs at 3910 SW Alaska Street. These are at our Consent Decree site in West Seattle being managed by Libby Goldstein.

The tanks were discovered during removal of the top few feet of soil in an area not previously known to contain tanks. They appear very old and are likely from the original 1930s-era service station. The tanks may contain waste oil and/or gasoline.

The tanks are holding up the excavation in the area. Can you issue a waiver for the 30-day notice? Please find attached documents.

Thank you

Rob Roberts
Senior Scientist



SoundEarth Strategies, Inc.
2811 Fairview Ave East, Suite 2000
Seattle, Washington 98102
Main: 206.306.1900
Direct: 206.245.1184
Mobile: 425.985.6253

WED 4/8/15 10:22AM

Your
Seattle
Fire Department



APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 4/8/2015

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

| | | | |
|---|---|---|--|
| FIRM NAME | SOUND EARTH STRATEGIES CONSTRUCTION LLC | | |
| MAILING ADDRESS | 2811 FAIRVIEW AVE EAST # 2000 SUITE | | |
| CITY | SEATTLE WA | STATE | WA ZIP 98102 |
| JOBSITE ADDRESS | 3901 SW ALASKA ST SEATTLE | | |
| CONTACT PERSON | CLAYTON MULLENDORT | PHONE NUMBER | (206) 455-4849 |
| Number of Tank(s): | 2 | Tank Size(s): | 500 & 1000 |
| Product(s) Previously Contained: | GAS/OIL | | <input type="checkbox"/> Aboveground tank |
| | | | <input checked="" type="checkbox"/> Underground tank |
| <input checked="" type="checkbox"/> Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents) | | | |
| <input type="checkbox"/> Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns) | | | |
| Hot work being conducted: | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes (If yes, a separate hot work permit is required) | |

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

| | |
|--------------------------|---|
| FMO USE: | APPROVED BY: |
| Check No.: 0003002040615 | Inspector: <u>John Louderback</u> SFD ID# 1077 |
| Receipt No.: 5-244656 | Name of Marine Chemist: <u>George Blair</u> Certificate # 637 |
| Application ID#: 100577 | Date: 4/8/15 |

COMMERCIAL TANK REMOVAL/DECOMMISSIONING PERMIT CONDITIONS

1. Two (2) portable fire extinguishers each having a minimum rating of 40 BC shall be on site within 50 feet of the operation. Fire extinguishers shall be inspected, approved and certified annually.
2. Rope or ribbon barricades located at least 10 feet from the tank shall surround every outdoor storage tank removal or decommissioning operation or the operation shall be enclosed in a fenced yard.
3. "No Smoking" signs shall be posted in readily visible locations.
4. No hot work is allowed on a tank system prior to issuance of this permit and the tank is certified "Safe for Hot Work" by a Certified Marine Chemist. Hot work means any activities involving riveting, welding, burning, brazing, soldering, heating, chopping, grinding, ripping, drilling, cutting with a chop saw or "Sawzall", abrasive blasting, use of powder-actuated tools or similar spark-producing operations, crushing or mechanically shearing to facilitate opening for cleaning, disposal, scrapping for recycling purposes.
5. A separate temporary Seattle Fire Department permit (Code 4913) or a validation number assigned in conjunction with an annual hot work permit (Code 4911 or 4912) is required prior to any hot work operations.
6. Permits may cover multiple tanks located at the same address. If additional tanks are to be removed or abandoned at later dates, separate permits shall be obtained. Each address location requires a separate permit application regardless of whether multiple address locations are physically next to one another.
7. Additional fees will be charged if inspectors are required to work other than normal business hours. (Normal business hours are Monday through Friday, 8:00 a.m. to 4:30 p.m.)
8. No excavation of an underground tank is permitted prior to inspection by the Seattle Fire Marshal's Office.
Exception: Removal of the top layer of asphalt or concrete only with no removal of dirt, pea gravel or soil over the underground storage tank. Further excavation may be allowed by a Seattle Fire Department Special Hazards Unit Inspector prior to the initial inspection depending on conditions and if the tank has been inerted by a Marine Chemist who is present on site. The name of the inspector and the time permission was given shall be made available at time of inspection.
9. Prior to inspection, to ensure tanks and connected piping are completely free of all flammable or combustible liquids, a receipt or certificate must be on site indicating the tanks have been pumped and rinsed by an approved company. Product and rinse water must be disposed of in an approved manner.
10. For tanks being decommissioned in place that previously contained Class I liquids, a Certified Marine Chemist certificate must be issued and available on site for inspection certifying that the tank has been properly inerted prior to filling.
11. No tank shall be filled prior to an inspection by the Seattle Fire Marshal's Office.
12. Tanks being decommissioned in place must be filled with a lean concrete mixture. Filling with foam is prohibited.
13. A Marine Chemist's certificate verifying the tank has been properly inerted or is otherwise certified "Safe for Hot Work" shall be issued and available on site for inspection for each underground and aboveground tank being removed regardless of the product previously contained.
14. If tanks are being removed, the tanks' atmosphere must be inert using one of the following approved methods:
 - Dry ice (pellets or chunks of solid CO₂). Minimum 40 lbs per 1000 gallons of tank capacity is recommended.
 - Compressed CO₂ gas in cylinders (Note: This method may only be performed by a Certified Marine Chemist).
 - Purging with air (gas-freeing) using Venturi tube apparatus, with proper bonding and grounding and after the tank has been pumped and rinsed by an approved company.
15. A maximum reading of less than 6% of oxygen must be obtained prior to the removal of the tanks if CO₂ or another inert gas, as approved by the Marine Chemist, is used to inert the tank or, a reading of 0% LEL must be obtained prior to removal of the tank if the air-purging (Venturi air moving devices) method is used.
16. All local, state and federal regulations for confined space entry shall be complied with prior to entering an underground storage tank.
17. Tanks with baffles to prevent movement of liquid must be certified gas-freed or inerted by a Certified Marine Chemist or a Petroleum Industry Safety Engineer regularly engaged in that business prior to removal.
18. Tanks being removed must be removed from the site and relocated to a remote, approved facility on the same day that the permit is issued.
19. During the hot work operations, digging, excavating, hauling or transport of petroleum storage tanks that have not been cleaned and gas-freed, tanks must be inerted to less than 6% oxygen. All openings are to be cap closed and secured except for one 1/8" hole drilled through a cap. These tanks are to be sprayed painted with "INERTED, DO NOT ENTER" or "INERTED WITH CO₂, NOT SAFE FOR WORKERS".

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

P.O. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

MARINE VACUUM SERVICE, INC.

TRIPLE RINSE CERTIFICATE

Tank Size: 10000 gals.

Tank Description: Heat Oil TANK

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard and that all rinsate has been disposed of in accordance with Federal, State and Local regulations.

Tank Owner: CHINN CONST.

Sub-Contractor: SOUND EARTH STRAT.

M.V.S. Representative: [Signature]

Date: 4-8-15

Notes:

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

P.O. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

MARINE VACUUM SERVICE, INC.

TRIPLE RINSE CERTIFICATE

Tank Size: 500 gals.

Tank Description: Heat Oil Tank

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard and that all rinsate has been disposed of in accordance with Federal, State and Local regulations.

Tank Owner: CHINN CONST.

Sub-Contractor: SOUND EARTH STREAT.

M.V.S. Representative: [Signature]

Date: 4-8-15

Notes:



| | | |
|--|---|--|
| Rivers Edge Environmental, Inc. <i>Inspected/Authorized By:</i> | LMI West Seattle <i>Inspected/Checked/Account:</i> | Apr 8, 2015 <i>Date:</i> |
| Tank Farm <i>Vessel:</i> | Underground Storage Tank <i>Type of Vessel:</i> | 391 SW Alaska St. <i>Specific Location of Vessel:</i> |
| Waste Oil/Heating Oil <i>Hull/Type of Containment:</i> | O ₂ , LEL, Visual <i>Tests Performed:</i> | 10:22 <i>Time Survey Completed:</i> |

Inspected Spaces:

- Group 1. 1-1,000 Gal. UST
- Group 2. 1-500 Gal. UST

Safety Designations:

NOT SAFE FOR WORKERS
SAFE FOR LIMITED HOT WORK

LIMITATIONS:

Specific Location: *At job site.*

Hot Work Type: *These Tanks have been purged with CO₂ to <6% Oxygen and are safe for excavation and cutting of access.*

INERTED

Inert Medium: *Carbon Dioxide (CO₂)*

Method for maintaining safe conditions: *All openings are and must remain secured.*

Measures for safe disposal of inert gas: *Ventilate and test for 20.8% Oxygen to properly dispose of inerting gas.*

Instructions

Maintain firewatch with charged extinguisher at ready during hot work operations.

Test Results

| | % O₂ | % LEL |
|--------------------------|------------------------|--------------|
| Inspected spaces group 1 | 5.8% | N/A |
| Inspected spaces group 2 | 4.9% | N/A |

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFPA 306, Subsections 4.3.1 through 4.3.6)

ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry shall not be permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or lime, or all of the aforementioned, are appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not be capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire; or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated (a) portions of the space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable; and the nature or type of hot work shall be limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Apr 8, 2015
Date

Rivers Edge Environmental,
Company

Signed Marine Chemist

637
CMC No.



DEPARTMENT OF
ECOLOGY
State of Washington

Response to 30 Day Notice Waiver Request

****To be completed by Person Submitting Request****

UST ID # _____

Full Site Address: 3901 SW Alaska Street, Seattle WA

Owner/ Operator: LMI West Seattle

Contact phone #: 206-708-2296

Waiver Requested for 30 Day Notice to:

(Circle one or both)

DECOMMISSION

INSTALL

Person and Company Submitting Request: REG ROBERTS w/ Sound Earth

Contact phone #: 206-245-1184

Reason for Submitting Request: A UST IS HOLDING UP CONSTRUCTION

Date Request Submitted: APRIL 15, 2015

Date and time of Construction: APRIL 16, 2015

Name, Contact Phone Number, and ICC Certification Number for all that apply:

INSTALLER: _____

DECOMMISSIONER: FILCO #1033517

SITE ASSESSOR: LIZ FORBES #8163382

Completed 30 Day Notice Attached to Waiver Request Form?

(Circle one)

NO

Department of Ecology Response to Request (to be completed by UST Inspector):

WAIVER GRANTED

WAIVER DENIED

Inspector: _____

Signature and Date: _____

****DECOMMISSIONER(S) SHALL HAVE A COPY OF 30 DAY NOTICE AND A COPY OF THE WAIVER REQUEST FORM ON SITE DURING ALL DECOMMISSIONING RELATED ACTIONS *****



FILCO COMPANY INC.

P.O. Box 31228 • Seattle, WA 98103 • Ph: (206) 547-8347 • Fax: (206) 548-9352
www.FilcoEnviro.com • Lic# FILCOCI080RU

LETTER OF CERTIFICATION

April 16th, 2014

Sound Earth Strategies
2811 Fairview Ave E, Suite 2000
Seattle, Washington 98102

RE: Commercial Underground Heating Oil Tank at 3901 SW Alaska Street
Seattle, Washington 98116

This is to certify that Filco Company, Inc. has removed one approximate 1,000 gallon underground commercial gasoline tank from the above named property. The tank and its contents were disposed of according to the codes and guidelines set forth by the Washington State Department of Ecology and local Fire Department regulations and the decommissioned tank meets these standards.

Phil Suetens

Phil Suetens
President Filco Co., Inc.

BILL OF LADING
PRODUCT TRANSPORT MANIFEST
MARINE VACUUM SERVICE, INC.
 24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240
 FAX NUMBER 206-763-8084
 TRUCK NUMBER 17 DATE 4/16/15

Nº 11802

TO
 DESTINATION NAME Mar Vac
 STREET _____
 CITY/STATE _____

FROM
 SHIPPER NAME Filco Co.
 STREET _____
 CITY/STATE _____

| QUANTITY | PROPER SHIPPING NAME | UN (PLACARD) NUMBER |
|----------------|----------------------------|---------------------|
| <u>200 gal</u> | <u>Dily Water</u> | |
| <u>1 tank</u> | <u>1 tank for disposal</u> | |
| <u>50 gal</u> | <u>Wash But</u> | |
| | <u>Sand</u> | |
| | <u>SLUDGE on the Tank</u> | |

RECEIVER LVS: [Signature] DATE 4/16/15 SHIPPER [Signature] DATE 4/16/15

NOTE: _____

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminants including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

Survey Requested by: F.LCO Vessel Owner or Agent: UST Date: 16 APR 15
 Vessel: (WASTE OIL) Type of Vessel: Virtual O₂, CO, LEL, H₂S, THC Specific Location of Vessel: 3907 BLD ALASKA ST SEATTLE WA 98148
 Last Three (3) Loadings: Tests Performed: Time Survey Completed: 1302 HRS

| | |
|---|-------------------------------|
| ~ 1,000 gal UST | SAFE FOR EXCAVATION |
| | SAFE FOR TRANSPORT |
| | TO = 20.7%, LEL = 0% |
| | CO = H ₂ S < 1 ppm |
| | THC = 100 ppm |
| METER: ED S/N SX313-000374 / 0720 16 APR 15 | |

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided. Spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel, or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this Certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFPA 306, Subsections 4.3.1 through 4.3.6).

ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere is at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry is not permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire, or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated (a) portions of the space meet the requirements for Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable, and the nature or type of hot work is limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity." This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed: F.LCO Name: F.LCO Date: 16 APR 15 Signed: [Signature] #725 Certificate No. 725
 Marine Chemist
SOUND TESTING, INC.
 206-932-0206 Printed in U.S.A.
 24 HOUR SERVICE

City of Seattle
Fire Department

APPLICATION FOR TANK REMOVAL PERMIT
Commercial Tank Removal/Decommissioning

Code: 7904

Permit Fee: \$210.00

Date Issued: 6/16/2015

TANK COMPILER BY PERMIT ACTIVE INT

Tank(s) must be removed from site on the same day as permit is received

File Number: Filco Company, Inc.

Address: PO Box 31228

City: Seattle State: WA ZIP: 98103

Contract Address: 3901 SW Alaska St

Contractor: Mike Montgomery Phone Number: (206) 423-1791

Number of Tanks: one Tank Size: 1,000

Product(s) Previously Contained: Gasoline

Aboveground tank
 Underground tank

Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)
 Abandonment in Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or petroleum)

Hot work being conducted: No Yes (If yes, a separate hot work permit is required)

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2606

To pay with a Visa or MasterCard: Fill or email this application, THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1455 / Fax: (206) 386-1348
E-mail: permits@seattlefire.org

Call 206-386-1450, at least 24 hours prior to avoided inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION.
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

Special permit conditions: Tank removal/decommissioning must be performed or directly supervised by an ICC certified individual (IAC 193-201-01)

PHO USE:
Check No.: 8059041575
Receipt No.: 3-244935
Application ID#: 100145

APPROVED BY: [Signature]
Inspector: [Signature]
Name of Marine Chemist: Joseph Jettich
Date: 6/16/2015
SFD ID#: 1082
Certificate #: 1725-E

marine chemist cert #
725-178379

**Your
Seattle
Fire Department**



APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: _____

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

| | | | |
|-------------------------------------|--|-------------------------------------|--|
| FIRM NAME | Filco Company, Inc. | | |
| MAILING ADDRESS | PO Box 31228 | SUITE | |
| CITY | Seattle | STATE | WA ZIP 98103 |
| JOBSITE ADDRESS | 3901 SW Alaska St | | |
| CONTACT PERSON | Nate Montgomery | PHONE NUMBER | (206) 423-1791 |
| Number of Tank(s): | one | Tank Size(s): | 1,000 |
| Product(s) Previously Contained: | Gasoline | <input type="checkbox"/> | Aboveground tank |
| | | <input checked="" type="checkbox"/> | Underground tank |
| <input checked="" type="checkbox"/> | Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents) | | |
| <input type="checkbox"/> | Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns) | | |
| Hot work being conducted: | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | (If yes, a separate hot work permit is required) |

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

| | |
|------------------------|--|
| FMO USE: | APPROVED BY: |
| Check No.: _____ | Inspector: _____ SFD ID# _____ |
| Receipt No.: _____ | Name of Marine Chemist _____ Certificate # _____ |
| Application ID#: _____ | Date: _____ |

APPENDIX E
SOIL REMOVAL SUMMARY



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|---------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S001 | Silver Streak | 97 | 3/26/2015 | 3 | Cemex | | 33.34 |
| S002 | Silver Streak | 108 | 3/26/2015 | 3 | Cemex | | 34.46 |
| S003 | Silver Streak | 33 | 3/26/2015 | 3 | Cemex | | 34.78 |
| S004 | Silver Streak | 57 | 3/26/2015 | 3 | Cemex | | 33.67 |
| S005 | Silver Streak | 103 | 3/26/2015 | 3 | Cemex | | 33.03 |
| S006 | Silver Streak | 95 | 3/26/2015 | 3 | Cemex | | 33.81 |
| S007 | Gary McCann | 991 | 4/14/2015 | 2 | Cemex | 27.87 | |
| S008 | Silver Streak | 119 | 4/14/2015 | 2 | Cemex | 32.91 | |
| S009 | Silver Streak | 37 | 4/14/2015 | 2 | Cemex | 34.08 | |
| S010 | Silver Streak | 161 | 4/14/2015 | 2 | Cemex | 34.87 | |
| S011 | Silver Streak | 161 | 4/14/2015 | 2 | Cemex | 31.78 | |
| S012 | Silver Streak | 43 | 4/14/2015 | 2 | Cemex | 30.42 | |
| S013 | Silver Streak | 171 | 4/14/2015 | 2 | Cemex | | 30.38 |
| S014 | Silver Streak | 95 | 4/17/2015 | 3 | Cemex | | 35.26 |
| S015 | CTI | 410 | 4/17/2015 | 3 | Cemex | | 35.88 |
| S016 | Rivers Edge | 5789-12 | 4/17/2015 | 3 | Cemex | | 30.54 |
| S017 | Silver Streak | 91 | 4/17/2015 | 3 | Cemex | | 29.44 |
| S018 | Girard | 3 | 4/17/2015 | 3 | Cemex | | 34.45 |
| S019 | OMA | 157 | 4/17/2015 | 3 | Cemex | | 40.76 |
| S020 | OMA | 156 | 4/17/2015 | 3 | Cemex | | 41.61 |
| S021 | OMA | 127 | 4/17/2015 | 3 | Cemex | | 30.54 |
| S022 | Silver Streak | 95 | 4/17/2015 | 3 | Cemex | | 37.6 |
| S023 | CTI | 410 | 4/17/2015 | 3 | Cemex | | 37.81 |
| S024 | Silver Streak | 91 | 4/17/2015 | 3 | Cemex | | 34.38 |
| S025 | Rivers Edge | 5789-12 | 4/17/2015 | 3 | Cemex | | 32.23 |
| S026 | OMA | 157 | 4/17/2015 | 3 | Cemex | | 30.92 |
| S027 | OMA | 156 | 4/17/2015 | 3 | Cemex | | 33.42 |
| S028 | OMA | 127 | 4/17/2015 | 3 | Cemex | | 27.86 |
| S029 | CTI | 410 | 4/17/2015 | 3 | Cemex | | 33.28 |
| S030 | Silver Streak | 165 | 4/17/2015 | 3 | Cemex | | 25.16 |
| S031 | Silver Streak | 91 | 4/17/2015 | 3 | Cemex | | 26.88 |
| S032 | Rivers Edge | 5789-12 | 4/17/2015 | 3 | Cemex | | 25.37 |
| S033 | Silver Streak | 114 | 4/23/2015 | 3 | Cemex | | 32.87 |
| S034 | Silver Streak | 169 | 4/23/2015 | 3 | Cemex | | 33.61 |
| S035 | Silver Streak | 177 | 4/23/2015 | 3 | Cemex | | 29.1 |
| S036 | Silver Streak | 91 | 4/23/2015 | 3 | Cemex | | 29.74 |
| S037 | Elk Heights | 1 | 4/23/2015 | 3 | Cemex | | 28.3 |
| S038 | Silver Streak | 51 | 4/23/2015 | 3 | Cemex | | 31.96 |
| S039 | Silver Streak | 41 | 4/23/2015 | 3 | Cemex | | 28.94 |
| S040 | Silver Streak | 127 | 4/23/2015 | 3 | Cemex | | 32.98 |
| S041 | Silver Streak | 49 | 4/23/2015 | 3 | Cemex | | 31.72 |
| S042 | Silver Streak | 55 | 4/23/2015 | 3 | Cemex | | 34.18 |
| S043 | Silver Streak | 47 | 4/23/2015 | 3 | Cemex | | 35.94 |
| S044 | Silver Streak | 93 | 4/23/2015 | 3 | Cemex | | 30.62 |
| S045 | Fruhling | 23 | 4/23/2015 | 3 | Cemex | | 35.42 |
| S046 | Silver Streak | 119 | 4/23/2015 | 3 | Cemex | | 34.22 |
| S047 | Nelson Layman | 60 | 4/23/2015 | 3 | Cemex | | 34.17 |
| S048 | Silver Streak | 175 | 4/23/2015 | 3 | Cemex | | 33.08 |
| S049 | CTI | 341 | 4/23/2015 | 3 | Cemex | | 31.14 |
| S050 | Silver Streak | 43 | 4/23/2015 | 3 | Cemex | | 33.4 |
| S051 | Silver Streak | 49 | 4/24/2015 | 3 | Cemex | | 32.87 |
| S052 | Silver Streak | 177 | 4/24/2015 | 3 | Cemex | | 31.39 |
| S053 | Silver Streak | 169 | 4/24/2015 | 3 | Cemex | | 31.73 |



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|---------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S054 | Silver Streak | 127 | 4/24/2015 | 3 | Cemex | | 29.71 |
| S055 | Silver Streak | 117 | 4/28/2015 | 3 | Cemex | | 35.48 |
| S056 | Silver Streak | 129 | 4/28/2015 | 3 | Cemex | | 33.83 |
| S057 | Silver Streak | 109 | 4/28/2015 | 3 | Cemex | | 33 |
| S058 | Silver Streak | 93 | 4/28/2015 | 3 | Cemex | | 28.8 |
| S059 | Silver Streak | 173 | 4/28/2015 | 3 | Cemex | | 27.31 |
| S060 | Silver Streak | 37 | 4/28/2015 | 3 | Cemex | | 25.9 |
| S061 | Silver Streak | 107 | 4/28/2015 | 3 | Cemex | | 26.82 |
| S062 | J2 | J2 | 4/28/2015 | 3 | Cemex | | 30.16 |
| S063 | Nelson Layman | 58 | 4/28/2015 | 3 | Cemex | | 29.07 |
| S064 | Silver Streak | 108 | 4/28/2015 | 3 | Cemex | | 26.58 |
| S065 | CTI | 422 | 4/28/2015 | 3 | Cemex | | 27.44 |
| S066 | CTI | 420 | 4/28/2015 | 3 | Cemex | | 28.28 |
| S067 | Silver Streak | 55 | 4/28/2015 | 3 | Cemex | | 31.47 |
| S068 | Silver Streak | 117 | 4/28/2015 | 3 | Cemex | | 25.72 |
| S069 | Silver Streak | 129 | 4/28/2015 | 3 | Cemex | | 25.95 |
| S070 | Silver Streak | 109 | 4/28/2015 | 3 | Cemex | | 29.41 |
| S071 | Silver Streak | 169 | 4/28/2015 | 3 | Cemex | | 27.4 |
| S072 | Silver Streak | 173 | 4/28/2015 | 3 | Cemex | | 26.28 |
| S073 | Silver Streak | 103 | 4/28/2015 | 3 | Cemex | | 23.41 |
| S074 | JJ | J2 | 4/28/2015 | 3 | Cemex | | 30.81 |
| S075 | Silver Streak | 97 | 4/28/2015 | 3 | Cemex | | 27.38 |
| S076 | Nelson Layman | 58 | 4/28/2015 | 3 | Cemex | | 27.24 |
| S077 | Silver Streak | 108 | 4/28/2015 | 3 | Cemex | | 29.53 |
| S078 | Silver Streak | 55 | 4/28/2015 | 3 | Cemex | | 28.84 |
| S079 | CTI | 422 | 4/28/2015 | 3 | Cemex | | 24.65 |
| S080 | CTI | 410 | 4/28/2015 | 3 | Cemex | | 31.46 |
| S081 | CTI | 424 | 4/28/2015 | 3 | Cemex | | 27.28 |
| S082 | Silver Streak | 117 | 4/28/2015 | 3 | Cemex | | 32.77 |
| S083 | Silver Streak | 129 | 4/28/2015 | 3 | Cemex | | 30.29 |
| S084 | Silver Streak | 109 | 4/28/2015 | 3 | Cemex | | 28.72 |
| S085 | Silver Streak | 173 | 4/28/2015 | 3 | Cemex | | 31.25 |
| S086 | Silver Streak | J2 | 4/28/2015 | 3 | Cemex | | 30.98 |
| S087 | Silver Streak | 97 | 4/28/2015 | 3 | Cemex | | 29.05 |
| S088 | Silver Streak | 95 | 4/28/2015 | 3 | Cemex | | 25.48 |
| S089 | Nelson Layman | 58 | 4/28/2015 | 3 | Cemex | | 27.48 |
| S090 | CTI | 422 | 4/28/2015 | 3 | Cemex | | 28.92 |
| S091 | CTI | 410 | 4/28/2015 | 3 | Cemex | | 30.52 |
| S092 | Silver Streak | 125 | 4/28/2015 | 3 | Cemex | | 28.99 |
| S093 | Silver Streak | 108 | 4/28/2015 | 3 | Cemex | | 26.15 |
| S094 | Silver Streak | 117 | 4/28/2015 | 3 | Cemex | | 30.06 |
| S095 | Silver Streak | 109 | 4/28/2015 | 3 | Cemex | | 30.51 |
| S096 | Silver Streak | 51 | 4/28/2015 | 3 | Cemex | | 31.83 |
| S097 | Silver Streak | 117 | 5/8/2015 | 3 | Cemex | | 29.45 |
| S098 | Silver Streak | 175 | 5/8/2015 | 3 | Cemex | | 29.79 |
| S099 | Silver Streak | 97 | 5/8/2015 | 3 | Cemex | | 31.15 |
| S100 | Girard | 15 | 5/8/2015 | 3 | Cemex | | -- |
| S101 | OMA | 151 | 5/8/2015 | 3 | Cemex | | 29.29 |
| S102 | OMA | 127 | 5/8/2015 | 3 | Cemex | | 25.3 |
| S103 | Silver Streak | 114 | 5/8/2015 | 3 | Cemex | | 25.31 |
| S104 | Fischer | 7 | 5/8/2015 | 3 | Cemex | | 27.94 |
| S105 | Silver Streak | 91 | 5/8/2015 | 3 | Cemex | | 27.08 |
| S106 | Silver Streak | 117 | 5/8/2015 | 3 | Cemex | | 29.56 |
| S107 | Gary McCann | 991 | 5/8/2015 | 3 | Cemex | | 22.44 |
| S108 | Gary McCann | 1075 | 5/8/2015 | 3 | Cemex | | 31.33 |



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|---------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S109 | Silver Streak | 95 | 5/8/2015 | 3 | Cemex | | 31.83 |
| S110 | Rivers Edge | 12 | 5/8/2015 | 3 | Cemex | | 28.09 |
| S111 | Silver Streak | 169 | 5/8/2015 | 3 | Cemex | | 29.69 |
| S112 | Silver Streak | 91 | 5/11/2015 | 3 | Cemex | | 27.91 |
| S113 | Silver Streak | 95 | 5/11/2015 | 3 | Cemex | | 29.05 |
| S114 | Silver Streak | 107 | 5/11/2015 | 3 | Cemex | | 29.29 |
| S115 | Rivers Edge | 12 | 5/11/2015 | 3 | Cemex | | 28.34 |
| S116 | Nelson Layman | 60 | 5/11/2015 | 3 | Cemex | | 26.8 |
| S117 | Nelson Layman | 58 | 5/11/2015 | 3 | Cemex | | 26.57 |
| S118 | Silver Streak | 169 | 5/11/2015 | 3 | Cemex | | 28.9 |
| S119 | OMA | 132 | 5/11/2015 | 3 | Cemex | | 27.47 |
| S120 | OMA | 151 | 5/11/2015 | 3 | Cemex | | 28.83 |
| S121 | OMA | 153 | 5/11/2015 | 3 | Cemex | | 27.42 |
| S122 | OMA | 117 | 5/11/2015 | 3 | Cemex | | 25.63 |
| S123 | OMA | 130 | 5/11/2015 | 3 | Cemex | | 29.25 |
| S124 | JJW | J2 | 5/11/2015 | 3 | Cemex | | 29.63 |
| S125 | JJW | J3 | 5/11/2015 | 3 | Cemex | | 27.51 |
| S126 | Olson | 10 | 5/11/2015 | 3 | Cemex | | 29.72 |
| S127 | OMA | 154 | 5/11/2015 | 3 | Cemex | | 28.74 |
| S128 | Silver Streak | 173 | 5/11/2015 | 3 | Cemex | | 29.33 |
| S129 | Silver Streak | 95 | 5/11/2015 | 3 | Cemex | | 29.19 |
| S130 | Rivers Edge | 12 | 5/11/2015 | 3 | Cemex | | 28.28 |
| S131 | OMA | 132 | 5/11/2015 | 3 | Cemex | | 28.64 |
| S132 | Nelson Layman | 58 | 5/11/2015 | 3 | Cemex | | 26.87 |
| S133 | OMA | 151 | 5/11/2015 | 3 | Cemex | | 26.56 |
| S134 | OMA | 153 | 5/11/2015 | 3 | Cemex | | 30.46 |
| S135 | OMA | 130 | 5/11/2015 | 3 | Cemex | | 26.93 |
| S136 | JJW | J2 | 5/11/2015 | 3 | Cemex | | 27.82 |
| S137 | JJW | J3 | 5/11/2015 | 3 | Cemex | | 26.7 |
| S138 | Olson | 10 | 5/11/2015 | 3 | Cemex | | 29.03 |
| S139 | Silver Streak | 117 | 5/11/2015 | 3 | Cemex | | 29.58 |
| S140 | Silver Streak | 161 | 5/11/2015 | 3 | Cemex | | 30.78 |
| S141 | Silver Streak | 107 | 5/11/2015 | 3 | Cemex | | 29.29 |
| S142 | OMA | 117 | 5/11/2015 | 3 | Cemex | | 24.72 |
| S143 | Silver Streak | 95 | 5/11/2015 | 3 | Cemex | | 29.6 |
| S144 | Silver Streak | 173 | 5/11/2015 | 3 | Cemex | | 29.19 |
| S145 | OMA | 132 | 5/11/2015 | 3 | Cemex | | 29.51 |
| S146 | Girard | 17 | 5/11/2015 | 3 | Cemex | | 27.5 |
| S147 | Girard | 11 | 5/11/2015 | 3 | Cemex | | 24.67 |
| S148 | Silver Streak | 109 | 5/11/2015 | 3 | Cemex | | 29.72 |
| S149 | Silver Streak | 169 | 5/11/2015 | 3 | Cemex | | 27.65 |
| S150 | OMA | 12 | 5/11/2015 | 3 | Cemex | | 27.81 |
| S151 | Nelson Layman | 60 | 5/11/2015 | 3 | Cemex | | 28.19 |
| S152 | OMA | 153 | 5/11/2015 | 3 | Cemex | | 29.04 |
| S153 | Nelson Layman | 58 | 5/11/2015 | 3 | Cemex | | 31.31 |
| S154 | OMA | 130 | 5/11/2015 | 3 | Cemex | | 25.59 |
| S155 | JJW | J3 | 5/11/2015 | 3 | Cemex | | 27.19 |
| S156 | OMA | 151 | 5/11/2015 | 3 | Cemex | | 29.08 |
| S157 | OMA | 154 | 5/11/2015 | 3 | Cemex | | 29.94 |
| S158 | Silver Streak | 93 | 5/12/2015 | 3 | Cemex | | 26.94 |
| S159 | Silver Streak | 107 | 5/12/2015 | 3 | Cemex | | 26.85 |
| S160 | Silver Streak | 55 | 5/12/2015 | 3 | Cemex | | 28.05 |
| S161 | OMA | 154 | 5/12/2015 | 3 | Cemex | | 29.01 |
| S162 | Silver Streak | 95 | 5/12/2015 | 3 | Cemex | | 29.28 |
| S163 | Silver Streak | 109 | 5/12/2015 | 3 | Cemex | | 28.9 |



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|----------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S164 | Silver Streak | 177 | 5/12/2015 | 3 | Cemex | | 28.98 |
| S165 | Red-E Trucking | R38 | 5/12/2015 | 3 | Cemex | | 28.69 |
| S166 | Nelson Layman | 60 | 5/12/2015 | 3 | Cemex | | 25.28 |
| S167 | OMA | 153 | 5/12/2015 | 3 | Cemex | | 29.71 |
| S168 | OMA | 151 | 5/12/2015 | 3 | Cemex | | 30.92 |
| S169 | OMA | 132 | 5/12/2015 | 3 | Cemex | | 27.68 |
| S170 | OMA | 131 | 5/12/2015 | 3 | Cemex | | 30.87 |
| S171 | JJW | J2 | 5/12/2015 | 3 | Cemex | | 29.26 |
| S172 | JJW | J3 | 5/12/2015 | 3 | Cemex | | 30.45 |
| S173 | Silver Streak | 107 | 5/12/2015 | 3 | Cemex | | 27.28 |
| S174 | Silver Streak | 51 | 5/12/2015 | 3 | Cemex | | 27.79 |
| S175 | Silver Streak | 95 | 5/12/2015 | 3 | Cemex | | 29.37 |
| S176 | Silver Streak | 177 | 5/12/2015 | 3 | Cemex | | 29.03 |
| S177 | Silver Streak | 109 | 5/12/2015 | 3 | Cemex | | 29 |
| S178 | Red-E Trucking | R38 | 5/12/2015 | 3 | Cemex | | 27.45 |
| S179 | Nelson Layman | 60 | 5/12/2015 | 3 | Cemex | | 26.63 |
| S180 | OMA | 132 | 5/12/2015 | 3 | Cemex | | 28.29 |
| S181 | OMA | 152 | 5/12/2015 | 3 | Cemex | | 26.68 |
| S182 | OMA | 151 | 5/12/2015 | 3 | Cemex | | 28.19 |
| S183 | OMA | 153 | 5/12/2015 | 3 | Cemex | | 27.67 |
| S184 | JJW | J2 | 5/12/2015 | 3 | Cemex | | 29.23 |
| S185 | OMA | 155 | 5/12/2015 | 3 | Cemex | | 30.9 |
| S186 | OMA | 131 | 5/12/2015 | 3 | Cemex | | 30.98 |
| S187 | Nelson Layman | 58 | 5/12/2015 | 3 | Cemex | | 28.68 |
| S188 | JJW | J3 | 5/12/2015 | 3 | Cemex | | 30.16 |
| S189 | Silver Streak | 117 | 5/12/2015 | 3 | Cemex | | 28.98 |
| S190 | Rivers Edge | 5789-12 | 5/12/2015 | 3 | Cemex | | 29.17 |
| S191 | Silver Streak | 107 | 5/12/2015 | 3 | Cemex | | 30.6 |
| S192 | Silver Streak | 51 | 5/12/2015 | 3 | Cemex | | 30.78 |
| S193 | Silver Streak | 93 | 5/12/2015 | 3 | Cemex | | 26.28 |
| S194 | Silver Streak | 95 | 5/12/2015 | 3 | Cemex | | 27.29 |
| S195 | Silver Streak | 187 | 5/22/2015 | 3 | Cemex | | 24.61 |
| S196 | Silver Streak | 91 | 5/22/2015 | 3 | Cemex | | 24.82 |
| S197 | Silver Streak | 41 | 5/22/2015 | 3 | Cemex | | 27.6 |
| S198 | Silver Streak | 49 | 5/22/2015 | 3 | Cemex | | 26.24 |
| S199 | Silver Streak | 171 | 5/22/2015 | 3 | Cemex | | 28.23 |
| S200 | Silver Streak | 93 | 5/22/2015 | 3 | Cemex | | 26.07 |
| S201 | Silver Streak | 45 | 5/22/2015 | 3 | Cemex | | 25 |
| S202 | Silver Streak | 121 | 5/22/2015 | 3 | Cemex | | 24.37 |
| S203 | Silver Streak | 95 | 5/22/2015 | 3 | Cemex | | 28.17 |
| S204 | Silver Streak | 109 | 5/22/2015 | 3 | Cemex | | 26.2 |
| S205 | Silver Streak | 108 | 5/22/2015 | 3 | Cemex | | 27.33 |
| S206 | Nelson Layman | 60 | 5/22/2015 | 3 | Cemex | | 25.03 |
| S207 | Lloyd | 86 | 5/22/2015 | 3 | Cemex | | 26.95 |
| S208 | Lloyd | 186 | 5/22/2015 | 3 | Cemex | | 25.43 |
| S209 | Lloyd | 108 | 5/22/2015 | 3 | Cemex | | 28.63 |
| S210 | Lloyd | 112 | 5/22/2015 | 3 | Cemex | | 27.57 |
| S211 | JJW | J2 | 5/22/2015 | 3 | Cemex | | 32.04 |
| S212 | Red-E Trucking | R39 | 5/22/2015 | 3 | Cemex | | 30.3 |
| S213 | Silver Streak | 114 | 5/22/2015 | 3 | Cemex | | 28.55 |
| S214 | Silver Streak | 49 | 5/22/2015 | 3 | Cemex | | 27.05 |
| S215 | Silver Streak | 171 | 5/22/2015 | 3 | Cemex | | 28.5 |
| S216 | Silver Streak | 45 | 5/22/2015 | 3 | Cemex | | 28.79 |
| S217 | Silver Streak | 93 | 5/22/2015 | 3 | Cemex | | 29.09 |
| S218 | Silver Streak | 95 | 5/22/2015 | 3 | Cemex | | 28.34 |



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|-----------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S219 | Silver Streak | 109 | 5/22/2015 | 3 | Cemex | | 28.08 |
| S220 | Silver Streak | 121 | 5/22/2015 | 3 | Cemex | | 29.27 |
| S221 | Nelson Layman | 60 | 5/22/2015 | 3 | Cemex | | 27.76 |
| S222 | Lloyd | 86 | 5/22/2015 | 3 | Cemex | | 28.36 |
| S223 | Lloyd | 108 | 5/22/2015 | 3 | Cemex | | 28.97 |
| S224 | Lloyd | 106 | 5/22/2015 | 3 | Cemex | | 29.89 |
| S225 | Lloyd | 112 | 5/22/2015 | 3 | Cemex | | 28.04 |
| S226 | Silver Streak | 41 | 5/22/2015 | 3 | Cemex | | 27.52 |
| S227 | JJW | J2 | 5/22/2015 | 3 | Cemex | | 31.66 |
| S228 | Red-E Trucking | R39 | 5/22/2015 | 3 | Cemex | | 32.65 |
| S229 | JJW | J2 | 5/26/2015 | 3 | Cemex | | 33.95 |
| S230 | Newell Bros Inc | 3201 | 5/26/2015 | 3 | Cemex | | 30.55 |
| S231 | Silver Streak | 41 | 5/26/2015 | 3 | Cemex | | 29.94 |
| S232 | Silver Streak | 93 | 5/26/2015 | 3 | Cemex | | 27.66 |
| S233 | Silver Streak | 95 | 5/26/2015 | 3 | Cemex | | 24.36 |
| S234 | Silver Streak | 175 | 5/26/2015 | 3 | Cemex | | 27.03 |
| S235 | Silver Streak | 109 | 5/26/2015 | 3 | Cemex | | 26.07 |
| S236 | Silver Streak | 108 | 5/26/2015 | 3 | Cemex | | 27.63 |
| S237 | Silver Streak | 43 | 5/26/2015 | 3 | Cemex | | 27.08 |
| S238 | Silver Streak | 31 | 5/26/2015 | 3 | Cemex | | 27.3 |
| S239 | Silver Streak | 107 | 5/26/2015 | 3 | Cemex | | 26.4 |
| S240 | CTI | 412 | 5/26/2015 | 3 | Cemex | | 30.11 |
| S241 | CTI | 420 | 5/26/2015 | 3 | Cemex | | 26.45 |
| S242 | CTI | 341 | 5/26/2015 | 3 | Cemex | | 27.68 |
| S243 | Newell Bros Inc | 3201 | 5/26/2015 | 3 | Cemex | | 27.76 |
| S244 | CTI | 356 | 5/26/2015 | 3 | Cemex | | 28.94 |
| S245 | CTI | 313 | 5/26/2015 | 3 | Cemex | | 27.26 |
| S246 | CTI | 364 | 5/26/2015 | 3 | Cemex | | 26.48 |
| S247 | Lloyd | 11 | 5/26/2015 | 3 | Cemex | | 27.59 |
| S248 | Lloyd | 112 | 5/26/2015 | 3 | Cemex | | 27.18 |
| S249 | CTI | 340 | 5/26/2015 | 3 | Cemex | | 28.35 |
| S250 | JJW | J2 | 5/26/2015 | 3 | Cemex | | 28.27 |
| S251 | Silver Streak | 41 | 5/26/2015 | 3 | Cemex | | 28.65 |
| S252 | Silver Streak | 93 | 5/26/2015 | 3 | Cemex | | 28.82 |
| S253 | Silver Streak | 175 | 5/26/2015 | 3 | Cemex | | 31.05 |
| S254 | Silver Streak | 95 | 5/26/2015 | 3 | Cemex | | 30.88 |
| S255 | Silver Streak | 109 | 5/26/2015 | 3 | Cemex | | 30.22 |
| S256 | CTI | 341 | 5/28/2015 | 3 | Cemex | | 31.53 |
| S257 | Lloyd | 108 | 5/28/2015 | 3 | Cemex | | 26.68 |
| S258 | Lloyd | 116 | 5/28/2015 | 3 | Cemex | | 29.64 |
| S259 | Lloyd | 112 | 5/28/2015 | 3 | Cemex | | 27.61 |
| S260 | Lloyd | 114 | 5/28/2015 | 3 | Cemex | | 27.39 |
| S261 | Silver Streak | 55 | 5/28/2015 | 3 | Cemex | | 30.62 |
| S262 | Silver Streak | 173 | 5/28/2015 | 3 | Cemex | | 27.21 |
| S263 | Silver Streak | 31 | 5/28/2015 | 3 | Cemex | | 27.05 |
| S264 | Silver Streak | 93 | 5/28/2015 | 3 | Cemex | | 29.02 |
| S265 | Silver Streak | 109 | 5/28/2015 | 3 | Cemex | | 29.9 |
| S266 | Silver Streak | 41 | 5/28/2015 | 3 | Cemex | | 26.96 |
| S267 | Silver Streak | 108 | 5/28/2015 | 3 | Cemex | | 25.96 |
| S268 | Newell Bros Inc | 3201 | 5/28/2015 | 3 | Cemex | | 28.12 |
| S269 | JJW | J2 | 5/28/2015 | 3 | Cemex | | 25.96 |
| S270 | CTI | 313 | 5/28/2015 | 3 | Cemex | | 29.05 |
| S271 | CTI | 341 | 5/28/2015 | 3 | Cemex | | 28.16 |
| S272 | Lloyd | 86 | 5/28/2015 | 3 | Cemex | | 26.38 |
| S273 | Lloyd | 112 | 5/28/2015 | 3 | Cemex | | 24.97 |



Summary of Soil Removal
SKS Shell Property
3901 Southwest Alaska Street
Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|-----------------|--------------|-----------|-------------------|-------------|---------------|---------|
| | | | | | | Class 2 | Class 3 |
| S274 | Silver Streak | 175 | 5/28/2015 | 3 | Cemex | | 28.25 |
| S275 | Lloyd | 114 | 5/28/2015 | 3 | Cemex | | 27.91 |
| S276 | Lloyd | 116 | 5/28/2015 | 3 | Cemex | | 32.06 |
| S277 | Lloyd | 108 | 5/28/2015 | 3 | Cemex | | 30.59 |
| S278 | Silver Streak | 55 | 5/28/2015 | 3 | Cemex | | 27.3 |
| S279 | Silver Streak | 167 | 5/28/2015 | 3 | Cemex | | 25.52 |
| S280 | Silver Streak | 173 | 5/28/2015 | 3 | Cemex | | 30.19 |
| S281 | Silver Streak | 31 | 5/28/2015 | 3 | Cemex | | 27.37 |
| S282 | Silver Streak | 109 | 5/28/2015 | 3 | Cemex | | 29.67 |
| S283 | Newell Bros Inc | 3201 | 5/28/2015 | 3 | Cemex | | 34.72 |
| S284 | Lloyd | 86 | 5/29/2015 | 3 | Cemex | | 28.94 |
| S285 | Lloyd | 112 | 5/29/2015 | 3 | Cemex | | 26.15 |
| S286 | Silver Streak | 183 | 5/29/2015 | 3 | Cemex | | 27.65 |
| S287 | Silver Streak | 109 | 5/29/2015 | 3 | Cemex | | 27.47 |
| S288 | Silver Streak | 95 | 5/29/2015 | 3 | Cemex | | 26.26 |
| S289 | Newell Bros Inc | 3201 | 5/29/2015 | 3 | Cemex | | 29.02 |
| S290 | Silver Streak | 91 | 5/29/2015 | 3 | Cemex | | 28.57 |
| S291 | Silver Streak | 83 | 5/29/2015 | 3 | Cemex | | 25.3 |
| S292 | Nelson Layman | 60 | 5/29/2015 | 3 | Cemex | | 30.83 |
| S293 | Silver Streak | 107 | 5/29/2015 | 3 | Cemex | | 29.93 |
| S294 | Silver Streak | 108 | 5/29/2015 | 3 | Cemex | | 28.19 |
| S295 | Lloyd | 114 | 5/29/2015 | 3 | Cemex | | 28.24 |
| S296 | Lloyd | 116 | 5/29/2015 | 3 | Cemex | | 29.61 |
| S297 | JJW | J2 | 5/29/2015 | 3 | Cemex | | 27.61 |
| S298 | Silver Streak | 41 | 5/29/2015 | 3 | Cemex | | 27.48 |
| S299 | Silver Streak | 183 | 5/29/2015 | 3 | Cemex | | 29.96 |
| S300 | Lloyd | 86 | 5/29/2015 | 3 | Cemex | | 29.35 |
| S301 | Red-E Trucking | R39 | 6/1/2015 | 3 | Cemex | | 29.86 |
| S302 | Red-E Trucking | 32 | 6/1/2015 | 3 | Cemex | | 31.2 |
| S303 | Red-E Trucking | R48 | 6/1/2015 | 3 | Cemex | | 29.97 |
| S304 | Silver Streak | 183 | 6/1/2015 | 3 | Cemex | | 29.06 |
| S305 | Silver Streak | 187 | 6/1/2015 | 3 | Cemex | | 29.11 |
| S306 | Red-E Trucking | R38 | 6/1/2015 | 3 | Cemex | | 29.56 |
| S307 | Silver Streak | 109 | 6/1/2015 | 3 | Cemex | | 28.54 |
| S308 | Silver Streak | 173 | 6/1/2015 | 3 | Cemex | | 25.1 |
| S309 | Silver Streak | 169 | 6/1/2015 | 3 | Cemex | | 32.19 |
| S310 | Silver Streak | 108 | 6/1/2015 | 3 | Cemex | | 27.59 |
| S311 | Silver Streak | 125 | 6/1/2015 | 3 | Cemex | | 28.74 |
| S312 | JJW | J2 | 6/1/2015 | 3 | Cemex | | 31.84 |
| S313 | Silver Streak | 129 | 6/1/2015 | 3 | Cemex | | 30.27 |
| S314 | Rivers Edge | 5789-12 | 6/1/2015 | 3 | Cemex | | 28.94 |
| S315 | Newell Bros Inc | 3201 | 6/1/2015 | 3 | Cemex | | 33.11 |
| S316 | Lloyd | 86 | 6/1/2015 | 3 | Cemex | | 29.18 |
| S317 | Lloyd | 108 | 6/1/2015 | 3 | Cemex | | 27.66 |
| S318 | Silver Streak | 167 | 6/1/2015 | 3 | Cemex | | 31.15 |
| S319 | Lloyd | 114 | 6/1/2015 | 3 | Cemex | | 29.74 |
| S320 | Lloyd | 112 | 6/1/2015 | 3 | Cemex | | 29.85 |
| S321 | Silver Streak | 45 | 6/1/2015 | 3 | Cemex | | 32.99 |
| S322 | Silver Streak | 117 | 6/1/2015 | 3 | Cemex | | 32.93 |
| S323 | Silver Streak | 95 | 6/1/2015 | 3 | Cemex | | 31.8 |
| S324 | Silver Streak | 183 | 6/1/2015 | 3 | Cemex | | 35.63 |
| S325 | Silver Streak | 187 | 6/4/2015 | 3 | Cemex | | 27.78 |
| S326 | Silver Streak | 175 | 6/4/2015 | 3 | Cemex | | 27.87 |
| S327 | Silver Streak | 108 | 6/4/2015 | 3 | Cemex | | 27.9 |
| S328 | Nelson Layman | 60 | 6/4/2015 | 3 | Cemex | | 27.96 |
| S329 | Newell Bros Inc | 3201 | 6/4/2015 | 3 | Cemex | | 31.68 |
| S330 | Silver Streak | 47 | 6/4/2015 | 3 | Cemex | | 29.38 |
| S331 | JJW | J2 | 6/4/2015 | 3 | Cemex | | 30.62 |



Summary of Soil Removal
 SKS Shell Property
 3901 Southwest Alaska Street
 Seattle, Washington

| Ticket # | Truck Company | Truck Number | Date | Class of Material | Destination | Volume (tons) | |
|----------|---------------|--------------|----------|-------------------|-------------|---------------|----------------|
| | | | | | | Class 2 | Class 3 |
| S332 | Olson | 22 | 6/4/2015 | 3 | Cemex | | 27.8 |
| S333 | PGH | 5 | 6/4/2015 | 3 | Cemex | | 29.43 |
| S334 | Girard | 12 | 6/4/2015 | 3 | Cemex | | 28.48 |
| S335 | Silver Streak | 125 | 6/4/2015 | 3 | Cemex | | 23.41 |
| Total: | | | | | | 191.93 | 9562.67 |

APPENDIX F
VAPOR BARRIER TECHNICAL COMPONENTS

Submittal Cover

PROJECT: The Fauntleroy Mixed Use Project

PROJECT NO: 14-0903

DATE: 04/08/2015

SUBMITTAL NO.: 07-1700-02

SUBMITTAL FOR: Below grade waterproofing at contaminated area

SUBMITTED TO: Kevin Kirk – LMI West Seattle Holdings, LLC

SUB / SUPPLIER: Division 7

DOCUMENTS SUBMITTED: Via e-mail

NO. of COPIES TO RETURN: 1 via e-mail (to CHINN Construction)

PLEASE RETURN BY: ASAP 04/15/15

NOTES: Please indicate your approval for the item(s) below. We'd like to request a one week turnaround, if not earlier, for this submittal in order to meet installation schedule.

| Item | Description | Qty | Type* |
|------|---|-----|-------|
| 1 | Cetco Voltex DSCR, Liquid Boot products and application details | 1 | E |
| | | | |
| | | | |
| | | | |

*E:Electronic copy ; H: Hardcopy; S: Sample

- reviewed - no comments revise and resubmit
 reviewed - comments noted returned without review

Review is for general conformance with the design concept and the information provided in the contract documents. Contractor is responsible for confirming dimensions, quantities, fabrication processes, assembly techniques, coordination, and satisfactory performance of the work. It is assumed that this document has been reviewed by the general contractor prior to submittal.

4-9-15

by: _____ date: _____

CROSS 2 DESIGN GROUP

**RUN VOLTEX DS (CR) AND LIQUID
BOOT 10' PAST BOUNDARY OF
CONTAMINATION**

WEBER THOMPSON

The Architect's review is for the limited purpose of reviewing for general compliance with the design intent expressed in the contract documents.

The Contractor shall not be relieved of responsibility from deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and the Architect has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by the Architect's approval thereof.

The Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes, methods, and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner in accordance with local and federal requirements.

- No exception taken
 Make corrections noted
 Revise and resubmit
 Rejected
 Review by Weber Thompson PLLC is limited to architectural components only

By: Josh McDonald

Date Received: 4/7/15

Date Reviewed: 4/9/15



COLLOID ENVIRONMENTAL TECHNOLOGIES COMPANY

CHINN CONSTRUCTION, LLC
SUBMITTAL FOR:

14-0903-07-1700-02 Below grade WP at contaminated

- APPROVED FOR SUBMITTAL
- APPROVE FOR SUBMITTAL AS NOTED
- NOT APPROVED FOR SUBMITTAL - RESUBMIT

This submittal REVIEW shall not be construed as a complete check and indicates only that the information presented conforms generally with Contract Documents; in no case is the Subcontractor of Supplier relieved of full responsibility for adherence to the Contract Documents and satisfactory construction of all work. Submitted to Owner, Architect-Engineer and for final approval.

Thang Do
By

04/08/2015
Date

TECH
DATA

VOLTEx® DS (CR)

BENTONITE GEOTEXTILE WATERPROOFING SYSTEM WITH INTEGRATED HDPE LINER (Contaminant Resistant)

DESCRIPTION

Voltex DS® is a highly effective waterproofing membrane designed for below-ground applications. Voltex DS is a composite of two high-strength geotextiles, 4.88 kg of sodium bentonite per square metre, and a HDPE Liner integrally bonded to the non-woven geotextile. The high swelling, low permeability sodium bentonite is encapsulated between the two geotextiles. A patented needlepunching process interlocks the geotextiles together forming an extremely strong composite that ensures uniformity of the bentonite layer, in addition to protecting the product from inclement weather and construction site related damage.

Voltex DS works by forming a low permeability membrane upon contact with water. Upon hydration, unconfined bentonite can swell up to 15 times its dry volume. When confined under pressure the bentonite swells, forming a dense, impervious waterproofing membrane. The swelling action of the Voltex DS can self-seal small concrete cracks caused by ground settlement, concrete shrinkage, or seismic action – problems over which there is normally no control. Voltex DS forms a strong mechanical bond to concrete when the geotextile fibers are encapsulated by the concrete poured against it.

APPLICATIONS

Voltex DS is designed for below-ground vertical and horizontal structural foundation surfaces. Typical applications include backfilled concrete walls, earth-covered roofs, structural slabs, tunnels, and property line construction. Property line construction applications include secant and contiguous piling, skin wall, metal sheet piling, shotcrete and stabilized earth retention walls. Applications may include structures under continuous or intermittent hydrostatic pressure.

Voltex DS is particularly appropriate for use in conditions where excessive precipitation and / or contamination exist.

INSTALLATION

GENERAL

Install Voltex DS in strict accordance with the manufacturer's installation guidelines. Use accessory products as recommended. Install Voltex DS with the dark grey (woven) geotextile side against the concrete to be waterproofed. Install Waterstop RX101 in all applicable horizontal and vertical concrete construction joints. Schedule waterproofing material installation to permit prompt placement of backfill material or concrete. For applications not covered herein, refer to Voltex Product Manual or contact CETCO for specific installation guidelines.

STORAGE

Store Voltex DS and all accessory products in a dry shelter. If stored outside protect with weatherproof cover on all sides and top. Block up or pallet materials to prevent contact with ground surface water.

PREPARATORY WORK

Substrate should be smooth and Compacted to a minimum of 85% Modified Proctor density. Concrete surfaces should be free of voids and sharp projections. Surface irregularities should be removed before installation. Honeycombing and other surface voids must be filled with mortar or Bentoseal, and tie-bolt holes must be filled with proprietary non-shrink mortar/grout.

UNDER CONCRETE FLOOR SLABS

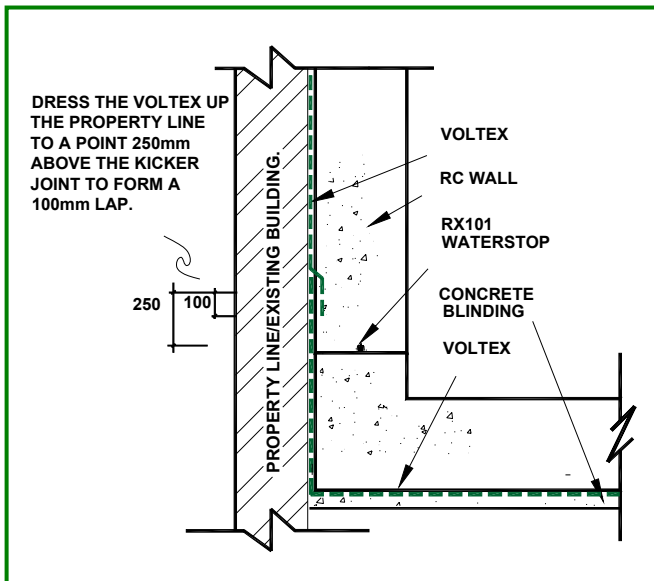
Voltex DS is recommended for use under structural reinforced concrete slabs 150 mm thick, or greater, over a compacted earth/gravel substrate, or 50 mm lean-mix concrete. Install Voltex DS around all foundations (ground beams pads, pile caps etc).

Place Voltex DS over the properly prepared substrate with the dark grey (woven) geotextile side facing the concrete to be waterproofed. Overlap all adjoining edges a minimum 100 mm and stagger ends a minimum 300 mm. Staple or nail edges together as required to prevent any displacement before and during concrete placement.

Voltex DS should not extend into foundation bearing planes (i.e. pile caps, ground beams, pads etc.) but should completely envelop them. Where this is not possible / desirable, VolSeal 20 (cementitious waterproofing by crystallization) or similar can be used as a continuity 'membrane' through the bearing plane, to which Voltex DS can be sealed using a 100 mm lap, incorporating a 5 mm X 50 mm fillet of Bentoseal.

Cut Voltex DS to provide a snug fit around all applicable penetrations (pipes, piles etc).

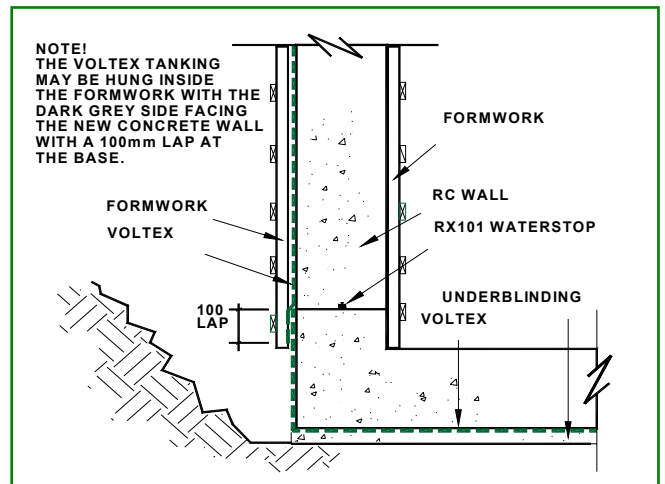
Detail all penetrations with a 40 mm fillet of Bentoseal or Volclay Paste (granules & water) around the penetration on top of the Voltex DS. Where concrete underblinding is not used, detail an additional 50 mm chase filled with Volclay Granules around the penetration under the Voltex DS.



Where property line construction, such as secant / contiguous piling, metal sheet piling, skin wall etc., is used as the outside concrete form, continue the underslab Voltex DS installation up the property line a minimum 250 mm above the top edge of the finished floor slab foundation, or kicker level. The extra 250 mm is very important since there is no access to the outer edge after the concrete pour, and the top 100 mm needs to be kept free of concrete splashes to enable a clean lap later.

BACKFILLED CONCRETE WALLS

Voltex DS can be applied to backfilled walls in two ways: mechanically fastening to cast concrete just prior to backfilling (post-applied), or preferably, by utilizing the peel-adhesion properties of the Voltex DS (pre-applied). The needle-punched geotextile fibres, which have been forced from the white (spun) side through the bentonite and dark grey (woven) side, will be trapped within the wet concrete, and allow the Voltex DS to remain firmly attached to the concrete after the formwork has been removed.



All through concrete tie holes, etc., must be filled, from the outside, using a proprietary non-shrink grout or similar, covered in a 'mushroom' of Volclay Paste or Bentoseal, either prior to Voltex DS (post-fix) application, or prior to backfilling (pre-fix/peel-adhered application), where additional Voltex DS patching will be required.

Detail all pipe penetrations with Waterstop RX101 as a 'puddle flange' within the concrete, ensuring no less than 75 mm concrete cover to all sides, and where penetrations pass through Voltex DS, ensure that Voltex DS is cut to provide a snug fit, and detail with a 40 mm X 40 mm fillet of Volclay Paste (granules & water) or Bentoseal, prior to backfilling.

BACKFILLED CONCRETE WALLS cont.

Backfill material shall be compactable soils and free of construction debris. Backfill shall be clean, well grounded, and compacted every 300 mm to 85% modified proctor (as defined by ASTM 1557), and meet these general specifications:

- No rocks, stones or boulders larger than 50 mm
- 90% minimum soil particles smaller than 5 mm
- 10% maximum soil particles finer than 74 micron (200 mesh)

Terminate Voltex DS at ground level, etc., integrating the Voltex with a damp proof course/cavity tray (as per architects arrangement), by extending the DPC to overlap Voltex DS a minimum of 150 mm. The Voltex/DPC lap should be enhanced by the inclusion of a 5 mm X 50 mm fillet of Bentoseal, centrally located.

PRE-APPLIED

Apply Voltex DS to timber formwork, either horizontally or vertically, by nailing or stapling, following general application guidelines for lapping all adjacent edges 100 mm, and staggering adjacent roll ends no less than 300 mm (avoiding four-way laps), and additionally ensuring that laps face downwards, as applicable. The HDPE side should be against the formwork, and the dark grey (woven) side should face the concrete to be waterproofed.

Extend Voltex the full depth of the formwork, so that the Voltex laps 100 mm over the Voltex already cast into the slab edge and wall kicker, and allow no less than 150 mm at the top of the formwork, to provide ground slab continuity later, if required.

Position formwork as required, and tie/space forms, penetrating Voltex DS as necessary. Normal concrete practice is sufficient in terms of striking times for formwork, but due care should be taken to ensure that Voltex DS remains bonded to green concrete.

Where a slab 'toe' exists, and underslab Voltex DS has terminated at the top edge of slab, additional Voltex DS will be required to link underslab/edge of slab Voltex DS with wall Voltex DS. Apply a 40 mm X 40 mm fillet of Volclay Paste (granules & water) at the internal wall/slab corner, and place additional Voltex DS over the slab 'toe' lapping 100 mm over the edge of slab Voltex DS, and continue over the 'toe' terminating under the unbonded wall Voltex DS 'flap' at the back of the kicker.

POST-APPLIED

Apply Voltex DS vertically or horizontally against concrete, starting with a 100 mm lap with the underslab/edge of slab Voltex (peel-adhered to concrete), using CETCO's proprietary shot-fired 'soft-washer' fasteners, and following general application guidelines for lapping all adjacent edges 100 mm, and staggering adjacent roll ends no less than 300 mm (avoiding four-way laps), and additionally ensuring that laps face downwards, as applicable. The dark grey HDPE side should be against the concrete, and the white (spun) side facing the installer.

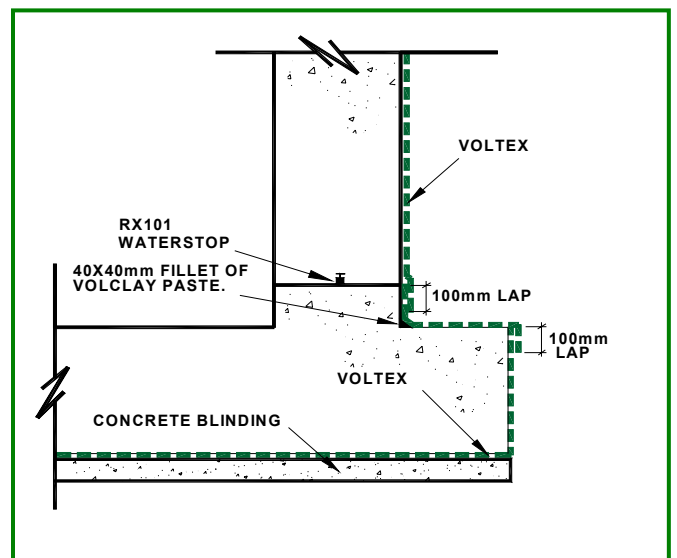
Detail all horizontal and vertical internal corners with a 40 mm X 40 mm fillet of Volclay paste (granules & water) or Bentoseal, prior to Voltex DS application.

NOTE: Voltex DS is not recommended for masonry block walls.

PROPERTY LINE CONSTRUCTION

Voltex DS is used to waterproof various types of property line construction, including metal sheet piling, secant and contiguous piling, skin wall, shotcrete and stabilized-earth retention walls. Shotcrete can be applied directly against Voltex DS.

Concrete surfaces shall be free of large voids or projections. Voids, pits, and cracks in excess of 20 mm, shall be parged to flush condition using cement grout, Volclay Bentoseal or Volclay paste (granules & water). Projections greater than 20 mm shall be removed or smoothed flush. Generally, gradual undulating surfaces are acceptable, sudden changes in level, i.e. ridges and hollows, are not.



PROPERTY LINE CONSTRUCTION cont.

When working against property line, always start with the vertical installation, prior to installing Voltex DS under slab. Apply the bottom run of Voltex DS lengthways/horizontally against the property line, approximately 1,100 mm from the substrate/blinding level, allowing 150 mm of Voltex DS to extend under slab. On profiled property line (metal sheet piling, secant and contiguous piling, etc) the 150 mm base 'flap' will need to be cut and splayed as necessary, to allow the material to lay flat.

Using CETCO's proprietary shot-fired 'soft-washer' fasteners, and following general application guidelines for lapping all adjacent edges 100 mm, and staggering adjacent roll ends no less than 300 mm (avoiding four-way laps), and additionally ensuring that laps face downwards, as applicable, ensure that Voltex DS closely contours the application surface. For secant piling, locate fixings close to cleavages. On contiguous piling, ensure that soil columns between piles are cut back to no less than one third of the pile diameter, to create a fixing cleavage, and reduce the likelihood of soil dislodging behind the membrane.

Detail all through wall pipe/sleeve penetrations with Waterstop RX101 as a 'puddle flange' within the concrete, ensuring no less than 75 mm concrete cover to all sides. Where pipe, tie-back etc., penetrations pass through Voltex DS, ensure that Voltex DS is cut to provide a snug fit, and detail with a 40 mm X 40 mm fillet of Bentoseal. Where through wall removable formwork ties are used, as opposed to 'lost' ties, please consult CETCO for guidance.

Due consideration should be given to termination levels and details, with reference to the height of the property line construction, since cutting down the property line after Voltex DS installation/concrete placement, will inevitably destroy the waterproofing.

LIMITATIONS

Horizontal installation surfaces shall be free of excessive* standing water, particularly where concrete underblinding is not utilized. (*Voltex DS can be installed in almost all inclement weather conditions, providing the quality/accuracy of the installation is not affected eg Voltex DS floating, Waterstop RX submersed, etc). If ground water contains strong acids, alkalis, or is of a conductivity of 2,500 umhos or greater, submit water samples to the manufacturer for compatibility testing. If contaminated ground-water or saltwater conditions exist, please contact manufacturer.

Voltex DS is not designed for unconfined above-ground waterproofing applications or below-ground masonry block foundation walls. Voltex DS is engineered for use under reinforced structural concrete slabs of 150 mm thick or greater. Do not install Voltex DS in horizontal split-slab, plaza deck and roof applications that will receive a poured concrete wear surface or other solid topping.

Voltex DS is not designed to waterproof expansion joints. Expansion joints require a properly engineered expansion joint sealant product manufactured by other companies.

SIZE & PACKAGING

Voltex DS is supplied in rolls, measuring 1.15 m X 5.0 m, each weighing 35 – 40 Kg. There are 32 rolls per pallet (184m²). Large rolls are also available, but require special handling equipment.

ACCESSORY PRODUCTS

Volclay Voltex DS accessories include:

BENTOSEAL[®]

Patented trowel grade sodium bentonite compound used as a detailing mastic around penetrations and corner transitions. Bentoseal is packaged in 14.25 litre tubs.

VOLTEX[®] **GRANULES**[®]

Pure granular Volclay Bentonite used to detail critical areas that may require extra Volclay protection. Voltex Granules are packaged in 20 kg bags.

WATERSTOP RX101[®]

Expanding bentonite-based concrete joint strip waterstop for use in non-moving concrete construction joints. Waterstop-RX101 is manufactured in flexible strips.

TECHNICAL DATA

| PROPERTY | TEST METHOD | TYPICAL VALUE |
|---------------------------------|-------------------|------------------------------|
| BENTONITE MASS PER UNIT AREA | ASTM D 3776 (mod) | 4.88 kg/m ² |
| PEEL ADHESION TO CONCRETE | ASTM D 903 (mod) | 15lb/in (2.5 KN per m width) |
| HYDROSTATIC PRESSURE RESISTANCE | ASTM D 5385 (mod) | 70 m |
| PERMEABILITY | ASTM D 5084 | 1 X 10 ⁻⁹ cm/sec |
| PERMEABILITY AT MEMBRANE SEAM | ASTM D 5084 | 1 10 ⁻⁹ cm/sec |
| GRAB TENSILE STRENGTH | ASTM D 4632 | 530N |
| PUNCTURE RESISTANCE | ASTM D 4833 | 620N |
| LOW TEMPERATURE FLEXIBILITY | ASTM D 1970 | UNAFFECTED @-32°C |



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 CH41 1FB

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 Fax: +44 (0) 151 606 5949

LIQUID BOOT®

SPRAY-APPLIED GAS VAPOR BARRIER

DESCRIPTION

LIQUID BOOT® is a seamless, spray-applied, water-based membrane containing no VOCs, which provides a barrier against vapor intrusion into structures. LIQUID BOOT® is installed under slab and on below grade vertical walls as a gas vapor barrier to minimize vapor and nuisance water migration into buildings. LIQUID BOOT® spray-application directly to penetrations, footings, grade beams, pile caps and other irregular surfaces, provides for a fully-adhered gas vapor barrier system.

APPLICATIONS

LIQUID BOOT® is used as an underslab and below-grade vertical wall gas vapor barrier, used to minimize vapor and nuisance water (non-hydrostatic conditions) migration into buildings. LIQUID BOOT® is ideal for methane migration control. LIQUID BOOT® is also NSF® certified for use as a potable water liner in concrete water reservoirs and tanks greater than 300,000 gallons to protect the concrete from water seepage.

BENEFITS

- Spray-application provides excellent sealing of penetrations, eliminating the need for mechanical fastening
- Seamless, monolithic membrane eliminates seaming-related membrane failures
- Unique formulation provides superior protection from methane gases and water vapor
- Fully adhered system reduces risk of gas migration
- Protection from methane gas, VOCs, chlorinated solvents and other contaminants

INSTALLATION

Protect all adjacent areas not to receive gas vapor barrier. Ambient temperature shall be within manufacturer's specifications. All plumbing, electrical, mechanical and structural items to be under or passing through the gas vapor barrier shall be secured in their proper positions and appropriately protected prior to membrane application. Gas vapor barrier shall be installed before placement of reinforcing steel. Expansion joints must be filled with a conventional waterproof expansion joint material. Surface preparation shall be per manufacturer's specification. A minimum thickness of 60 dry mils, unless specified otherwise.

LIMITED WARRANTY

CETCO warrants its products to be free of defects. This warranty only applies when the product is applied by Approved Applicators trained by CETCO. As factors which affect the result obtained from this product, including weather, equipment, construction, workmanship and other variables are all beyond CETCO's control, we warrant only that the material herein conforms to our product specifications. Under this warranty we will replace at no charge any product proved to be defective within 12 months of manufacture, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. This warranty is in lieu of any and all other warranties expressed or implied (including any implied warranty of merchantability or fitness for a particular use), and the Manufacturer shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise. This warranty shall become valid only when the product has been paid for in full.



In addition to superior chemical resistance performance, LIQUID BOOT® spray-application effectively seals penetrations, footings, grade beams and other irregular surfaces that are considered critical vapor intrusion pathways.

EQUIPMENT

- COMPRESSOR: Minimum output of 155-185 cubic feet per minute (CFM)
- PUMPS: For "A" drum, an air-powered piston pump of 4:1 ratio (suggested model: Graco, 4:1 Bulldog). For "B" drum, an air-powered diaphragm pump (0 -100 psi)
- HOSES: For "A" drum, ½" wire hose with a solvent resistant core (for diesel cleaning flush), hose rated for 500 psi minimum. For "B" drum, a 3/8" fluid hose rated at only 300 psi may be used.
- SPRAY WAND: Only the spray wand sold by CETCO is approved for the application of LIQUID BOOT®.
- SPRAY TIPS: Replacement tips can be purchased separately from CETCO.

PACKAGING

LIQUID BOOT® is available in the following packaging options:

- 55 Gallon Drum
- 275 Gallon Tote

LIQUID BOOT® SPRAY-APPLIED GAS VAPOR BARRIER

TESTING DATA

| CHEMICAL & PHYSICAL PROPERTIES | | |
|--|------------------------------|---|
| CHEMICAL PROPERTY | TEST METHOD | RESULT |
| Acid Exposure (10% H ₂ SO ₄ for 90 days) | ASTM D543 | Less than 1% weight change |
| Benzene Diffusion Test | Tested at 43,000 ppm | 2.90 x 10 ⁻¹¹ m ² /day |
| Chemical Resistance: VOCs, BTEXs (tested at 20,000 ppm) | ASTM D543 | Less than 1% weight change |
| Chromate Exposure (10% Chromium6+ salt for 31 days) | ASTM E96 | Less than 1% weight change |
| Diesel (1000 mg/l), Ethylbenzene (1000 mg/l), Naphthalene (5000 mg/l) and Acetone (500 mg/l) Exposure for 7 days | ASTM D543 | Less than 1% weight change; Less than 1% tensile strength change |
| Hydrogen Sulfide Gas Permeability | ASTM D1434 | None Detected |
| Methane Permeability | ASTM 1434-82 | Passed* |
| Microorganism Resistance | ASTM D4068-88 | Passed* |
| Oil Resistance | ASTM D543-87 | Passed* |
| PCE Diffusion Coefficient | Tested at 120 mg/L | 1.32 x 10 ⁻¹³ m ² /sec |
| Radon Permeability | Tested by US Dept. of Energy | Zero permeability to Radon (222Rn) |
| TCE Diffusion Coefficient | Tested at 524 mg/L | 9.07 x 10 ⁻¹³ m ² /sec |

| PHYSICAL PROPERTY | TEST METHOD | RESULT |
|---|------------------------|--|
| Accelerated Weathering and Ultraviolet Exposure | ASTM D822 | No adverse effect after 500 hours |
| Air Infiltration | ASTM E283-91 | 0 cfm/sq. ft. |
| Bonded Seam Strength Tests | ASTM D6392 | Passed* |
| Coefficient of Friction (with geotextile both sides) | ASTM D5321 | 0.72 |
| Cold Bend Test | ASTM D146 | Passed. Ø cracking at -25 °F |
| Dead Load Seam Strength | City of Los Angeles | Passed* |
| Electric Volume Resistivity | ASTM D257 | 1.91 x 10 ¹⁰ ohms-cm |
| Elongation | ASTM D412 | 1,332% Ø reinforcement, 90% recovery |
| Elongation w/8 oz. non-woven geotextile both sides | ASTM D751 | 100% (same as geotextile tested separately) |
| Environmental Stress-Cracking | ASTM D1693-78 | Passed* |
| Flame Spread | ASTM E108 | Class A with top coat (comparable to UL790) |
| Freeze-Thaw Resistance (100 Cycles) | ASTM A742 | Meets criteria. Ø spalling or disbondment |
| Heat Aging | ASTM D4068-88 | Passed* |
| Hydrostatic Head Resistance | ASTM D751 | Tested to 138 feet or 60 psi |
| Potable Water Containment | ANSI/NSF 61 | NSF Certified for tanks >300,000 gal |
| Puncture Resistance w/8 oz. non-woven geotextile both sides | ASTM D4833 | 286 lbs. (travel of probe = 0.756 in) |
| Sodium Sulfate (2% water solution) | ASTM D543, D412, D1434 | Less than 1% weight change |
| Soil Burial | ASTM E154-88 | Passed |
| Tensile Bond Strength to Concrete | ASTM D413 | 2,556 lbs/ft ² uplift force |
| Tensile Strength | ASTM D412 | 58 psi without reinforcement |
| Tensile Strength w/8 oz. non-woven geotextile both sides | ASTM D751 | 196 psi (same as geotextile tested separately) |
| Toxicity Test | 22 CCR 66696 | Passed |
| Water Penetration Rate | ASTM D2434 | <7.75 x 10 ⁻⁹ cm/sec |
| Water Vapor Permeance | ASTM E96 | 0.069 perms |

*Passes all Los Angeles City and County Methane Criteria

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UPDATED: NOVEMBER 2013

TDS_LIQUIDBOOT_AM_EN_201311_v1



VI-20™ GEOMEMBRANE

HIGH-PERFORMANCE VAPOR INTRUSION BARRIER

DESCRIPTION

VI-20™ is a 7-layer co-extruded geomembrane made using high quality virgin-grade polyethylene and EVOH resins that provide unmatched impact strength as well as superior resistance to VOC vapor transmission. EVOH technology serves as a highly resilient underslab and vertical wall barrier designed to restrict methane, radon and other harmful chemicals. Applications for EVOH originated in the manufacturing of automotive fuel systems to control emissions of hydrocarbons, whose use was mandated by the US EPA and the CA Air Resources Board (CARB) to reduce VOC emissions.

APPLICATION

VI-20™ is a 20-mil, high performance poly-ethylene-EVOH copolymer geomembrane, specially designed for use as a VOC barrier when used in conjunction with LIQUID BOOT® spray-applied vapor intrusion membrane to minimize vapor intrusion and nuisance water (non-hydrostatic conditions) migration into buildings. VI-20™ is ideal for applications with chlorinated solvents, BTEX and other PAHs.

BENEFITS

- Polyethylene layers provide excellent chemical resistance and physical properties
- EVOH barrier technology provides superior protection against diffusion of chemicals when compared to typical HDPE geomembranes
- Manufactured at ISO 9001:2008 certified plant

INSTALLATION

For use as a component of the LIQUID BOOT® Plus system, VI-20™ geomembrane is rolled out on prepared sub-grade, overlapping seams a minimum of six inches (6"). The geomembrane is cut around penetrations so that it lays flat on the sub-grade and tight at all inside corners. A thin (20 mil) tack coat of LIQUID BOOT® ("A" side without catalyst) is sprayed within the seam overlap. Once the VI-20™ geomembrane is installed, penetrations are then treated with VI-20™ Detailing Fabric prior to installation of the LIQUID BOOT® spray-applied vapor intrusion membrane and ULTRASHIELD™ G-1000 protection course.



EVOH technology provided in VI-20™ geomembrane has been shown to have VOC diffusion coefficients 20 times lower than an 80 mil (2 mm) HDPE geomembrane.

PACKAGING

VI-20™ Geomembrane is available in the following packaging option:

- 10 ft. x 150 ft. (3 m x 45 m) Rolls

| VI-20™ CHEMICAL & PHYSICAL PROPERTIES | | |
|---------------------------------------|----------------------|---|
| CHEMICAL PROPERTY | TEST METHOD | RESULT |
| Benzene Diffusion Coefficient | EPA Method 8260 | $4.5 \times 10^{-15} \text{ m}^2/\text{s}$ |
| Ethylbenzene Diffusion Coefficient | EPA Method 8260 | $4.0 \times 10^{-15} \text{ m}^2/\text{s}$ |
| m&p-Xylenes Diffusion Coefficient | EPA Method 8260 | $3.7 \times 10^{-15} \text{ m}^2/\text{s}$ |
| Methane Permeance | ASTM D1434 | $< 1.7 \times 10^{-10} \text{ m}^2/\text{d} \cdot \text{atm}$ |
| o-Xylene Diffusion Coefficient | EPA Method 8260 | $3.7 \times 10^{-15} \text{ m}^2/\text{s}$ |
| Radon Diffusion Coefficient | SP Test Method | $< 0.25 \times 10^{-12} \text{ m}^2/\text{s}$ |
| Toluene Diffusion Coefficient | EPA Method 8260 | $4.2 \times 10^{-15} \text{ m}^2/\text{s}$ |
| PHYSICAL PROPERTY | TEST METHOD | RESULT |
| Membrane Composite Thickness | ASTM D5199 | 20 mil (0.5 mm) |
| Impact Resistance | ASTM D1709 | 2,600 g |
| Tensile Strength | ASTM E154 Section. 9 | 58 lbf/in (1.0 N/m) |
| Water Vapor Transmission | ASTM E154 & E96 | 0.004 grains/hr-ft ² (0.0028 g/hr-m ²) |
| Water Vapor Retarder Classification | ASTM E1745 | Class A, B & C |

Note: These are typical property values.

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UPDATED: FEBRUARY 2014

TDS_VI-20_AM_EN_201403_V1



VI-20™ DETAILING FABRIC

VOLATILE ORGANIC COMPOUND VAPOR INTRUSION BARRIER

DESCRIPTION

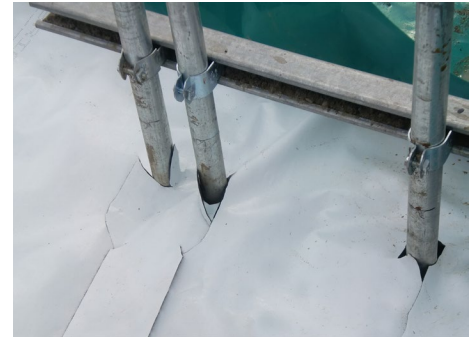
VI-20™ Detailing Fabric is a seven-layer co-extruded membrane made from polyethylene and EVOH resins to provide strength as well as resistance to VOC vapor transmission. VI-20™ Geomembrane is an underslab and vertical wall barrier that, when used in conjunction with Liquid Boot®, will inhibit volatile organic compound vapor migration through the concrete.

APPLICATION

VI-20™ Detailing Fabric is a material designed for use around penetrations and is used in conjunction with the VI-20™ Geomembrane.

BENEFITS

- Polyethylene layers provide excellent chemical resistance and physical properties
- Manufactured at an ISO 9001:2008 certified plant



EVOH technology provided in VI-20™ Detailing Fabric has been shown to have VOC diffusion coefficients 20 times lower than an 80 mil (2 mm) HDPE geomembrane.

TESTING DATA

| VI-20™ DETAILING FABRIC PHYSICAL & CHEMICAL PROPERTIES | | |
|--|---------------------|----------------------------------|
| PROPERTY | TEST METHOD | RESULT |
| Thickness, nominal | ASTM D5199 | 15 mil (0.38 mm) |
| Tensile Strength | ASTM D882 | 29 lbf (128 N) machine direction |
| Puncture Strength | ASTM D4833 | 50 lbf (220 N) |
| Impact Resistance | ASTM D1709 Method A | 1.9 lbf (8 N) |

PACKAGING

VI-20™ Detailing Fabric is available in the following packaging option:

- 51 in. x 50 ft. (1.3 m x 15.2 m) Rolls

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UPDATED: FEBRUARY 2014

TDS_VI-20DETAILINGFABRIC_AM_EN_201403_v1

LIQUID BOOT® TROWEL GRADE

TROWEL-APPLIED GAS VAPOR BARRIER

DESCRIPTION

LIQUID BOOT® is a trowel-applied, water-based membrane containing no VOCs, which provides a barrier against vapor intrusion into structures. LIQUID BOOT® Trowel Grade is installed in conjunction with the LIQUID BOOT® gas vapor barrier to minimize vapor and nuisance water migration. LIQUID BOOT® Trowel Grade offers additional protection around penetrations, providing for a fully-adhered gas vapor barrier system.

APPLICATIONS

LIQUID BOOT® Trowel Grade is used for detailing around penetrations and for repairs in LIQUID BOOT® gas vapor barrier applications.

AVAILABILITY

LIQUID BOOT® Trowel Grade is available from the following CETCO plant locations:

- 1001 S Linwood Ave., Santa Ana, CA
- 218 NE Industrial Park Rd., Cartersville, GA

BENEFITS

- Trowel application provides excellent sealing of penetrations
- Seamless, monolithic membrane means no mechanical fastening required
- Protection from methane gas, VOCs, chlorinated solvents and other contaminants
- Also protects against water vapor

LIMITATIONS

- Do not allow materials to freeze in containers.
- Store LIQUID BOOT® Trowel
- Grade at site in strict compliance with manufacturer's instructions.
- When applying material below 45°F, contact your local technical sales manager.

PACKAGING

LIQUID BOOT® Trowel Grade is available in the following packaging options:

- 1 Gallon Bucket (8 oz. bottle of catalyst uncluded)



In addition to superior chemical resistance performance, LIQUID BOOT® Trowel Grade effectively seals penetrations, which are considered critical vapor intrusion pathways.

TESTING DATA

| CHEMICAL & PHYSICAL PROPERTIES | | |
|--|------------------------------------|---|
| CHEMICAL PROPERTY | TEST METHOD | RESULT |
| Acid Exposure (10% H ₂ SO ₄ for 90 days) | ASTM D543 | Less than 1% weight change |
| Benzene Diffusion Test | Tested at 43,000 ppm | 2.90 x 10 ⁻¹⁴ m ² /sec |
| Chemical Resistance: VOCs, BTEXs (tested at 20,000 ppm) | ASTM D543 | Less than 1% weight change |
| Chromate Exposure (10% Chromium6+ salt for 31 days) | ASTM E96 | Less than 1% weight change |
| Diesel (1000 mg/l), Ethylbenzene (1000 mg/l), Naphthalene (5000 mg/l) and Acetone (500 mg/l) Exposure for 7 days | ASTM D543 | Less than 1% weight change; Less than 1% tensile strength change |
| Hydrogen Sulfide Gas Permeability | ASTM D1434 | None Detected |
| Methane Permeability | ASTM 1434-82 | Passed* |
| Microorganism Resistance | ASTM D4068-88 | Passed* |
| Oil Resistance | ASTM D543-87 | Passed* |
| PCE Diffusion Coefficient | Tested at 6,000 mg/m ³ | 2.74 x 10 ⁻¹⁴ m ² /sec |
| Radon Permeability | Tested by US Dept. of Energy | Zero permeability to Radon (222Rn) |
| TCE Diffusion Coefficient | Tested at 20,000 mg/m ³ | 8.04 x 10 ⁻¹⁴ m ² /sec |

LIQUID BOOT® TROWEL GRADE TROWEL-APPLIED GAS VAPOR BARRIER

TESTING DATA cont'd.

| PHYSICAL PROPERTY | TEST METHOD | RESULT |
|---|------------------------|--|
| Accelerated Weathering and Ultraviolet Exposure | ASTM D822 | No adverse effect after 500 hours |
| Air Infiltration | ASTM E283-91 | 0 cfm/sq. ft. |
| Bonded Seam Strength Tests | ASTM D6392 | Passed* |
| Coefficient of Friction (with geotextile both sides) | ASTM D5321 | 0.72 |
| Cold Bend Test | ASTM D146 | Passed. Ø cracking at -25 °F |
| Dead Load Seam Strength | City of Los Angeles | Passed* |
| Electric Volume Resistivity | ASTM D257 | 1.91 x 10 ¹⁰ ohms-cm |
| Elongation | ASTM D412 | 1,332% Ø reinforcement, 90% recovery |
| Elongation w/8 oz. non-woven geotextile both sides | ASTM D751 | 100% (same as geotextile tested separately) |
| Environmental Stress-Cracking | ASTM D1693-78 | Passed* |
| Flame Spread | ASTM E108 | Class A with top coat (comparable to UL790) |
| Freeze-Thaw Resistance (100 Cycles) | ASTM A742 | Meets criteria. Ø spalling or disbondment |
| Heat Aging | ASTM D4068-88 | Passed* |
| Hydrostatic Head Resistance | ASTM D751 | Tested to 138 feet or 60 psi |
| Potable Water Containment | ANSI/NSF 61 | NSF Certified for tanks >300,000 gal |
| Puncture Resistance w/8 oz. non-woven geotextile both sides | ASTM D4833 | 286 lbs. (travel of probe = 0.756 in) |
| Sodium Sulfate (2% water solution) | ASTM D543, D412, D1434 | Less than 1% weight change |
| Soil Burial | ASTM E154-88 | Passed |
| Tensile Bond Strength to Concrete | ASTM D413 | 2,556 lbs/ft ² uplift force |
| Tensile Strength | ASTM D412 | 58 psi without reinforcement |
| Tensile Strength w/8 oz. non-woven geotextile both sides | ASTM D751 | 196 psi (same as geotextile tested separately) |
| Toxicity Test | 22 CCR 66696 | Passed |
| Water Penetration Rate | ASTM D2434 | <7.75 x 10 ⁻⁹ cm/sec |
| Water Vapor Permeability | ASTM E96 | 0.24 perms |
| Water Vapor Transmission | ASTM E96 | 0.10 grains/h-ft ² |

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UPDATED: NOVEMBER 2013

TDS_LIQUIDBOOT-TROWELGRADE_AM_EN_201311_v1

Shotcrete or Cast-In-Place
Concrete Wall

60 Mil (1.5 mm) LIQUID BOOT
(100 Mil (2.5 mm) If Shotcrete)

VI-20 Detailing Fabric

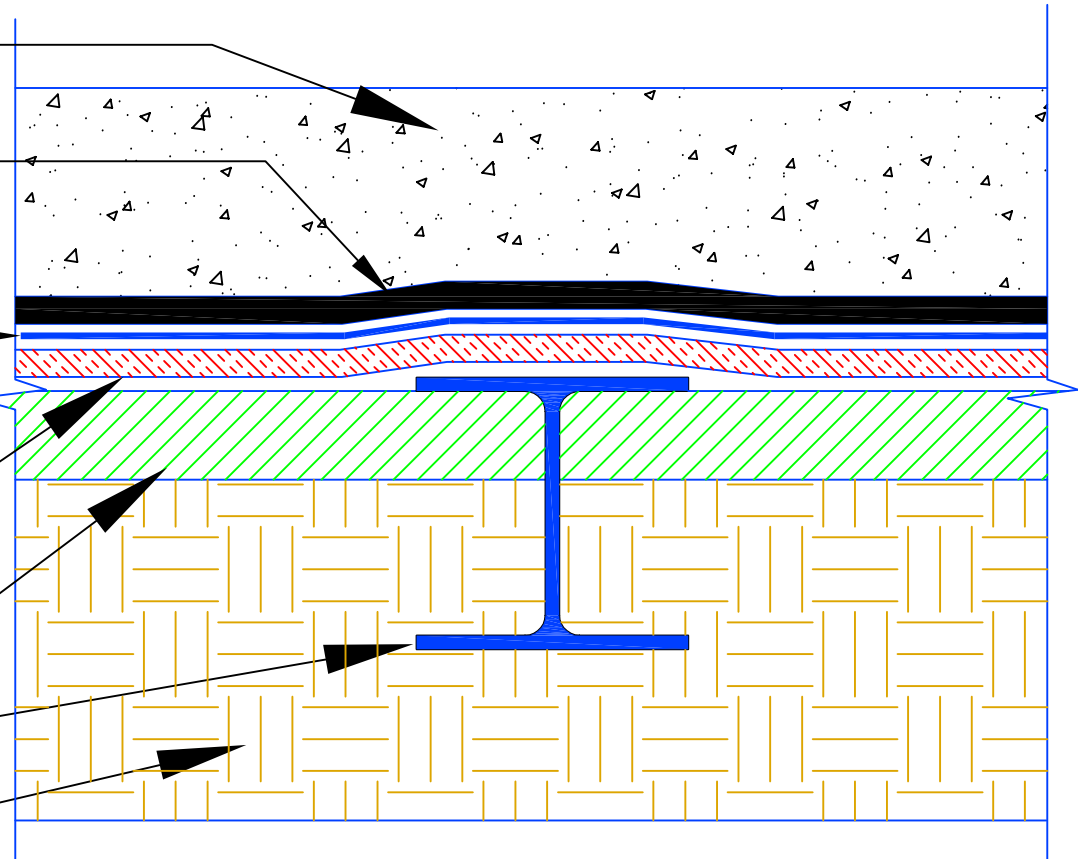
LIQUID BOOT UltraShield G-800
Or Voltex DS

Wood Lagging

Soldier Pile

Natural Earth

CHINN: Voltex DSCR per RFI 25.1



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GAS VAPOR BARRIER

ZERO LOT LINE WITH LAGGING

LBP 1.1

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CHINN: Voltex DSCR per RFI 25.1

Voltex DS System

~~LIQUID BOOT UltraShield P-100~~

60 Mils (1.5 mm) LIQUID BOOT

Structural Wall

3"(7.6 cm) wide LIQUID BOOT Fabric Reinforced Tape

Grouted Form Tie Holes

3/4" Min.(1.9 cm) LIQUID BOOT Cant

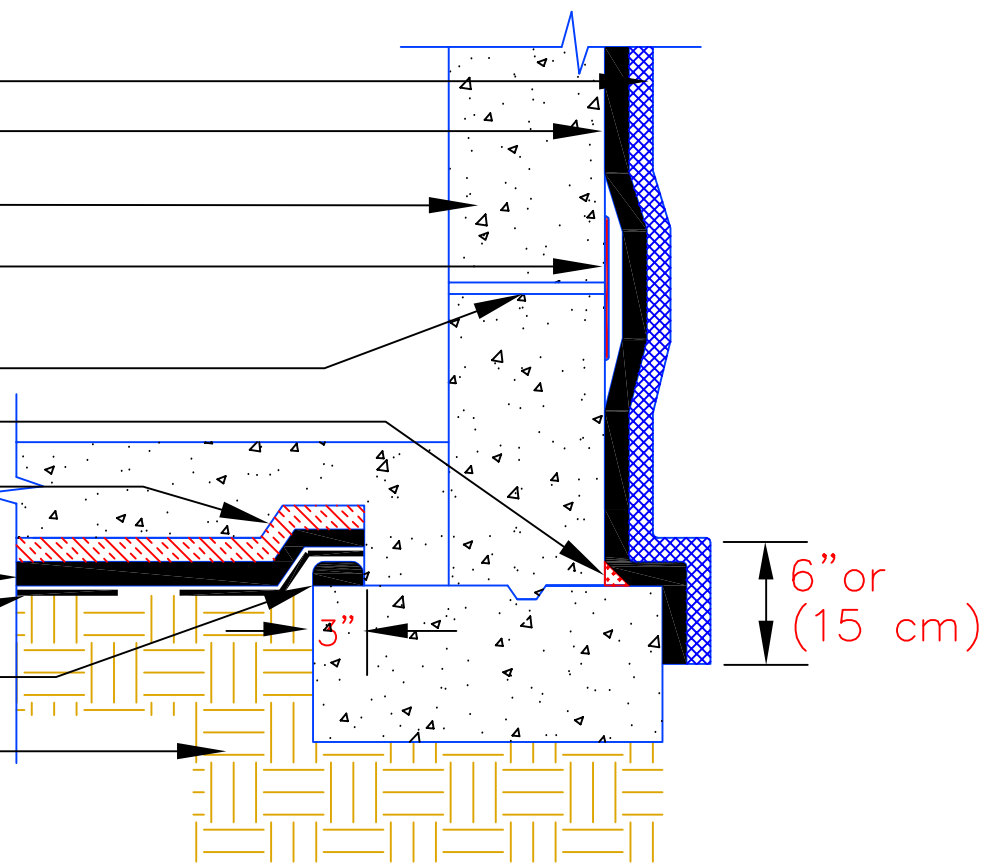
LIQUID BOOT UltraShield G-1000

60 Mils (1.5 mm) LIQUID BOOT

LIQUID BOOT BaseFabric

80 Mils (2.0 mm) LIQUID BOOT

Subgrade



NOTE:
Terminate membrane
1" (2.5 cm) above finish grade.



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GAS VAPOR BARRIER

UNDER SLAB AND WALLS

LB 2.2

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Penetration

Polypropylene Cable Tie 2" (5.0 cm)
Above Base Of Penetration

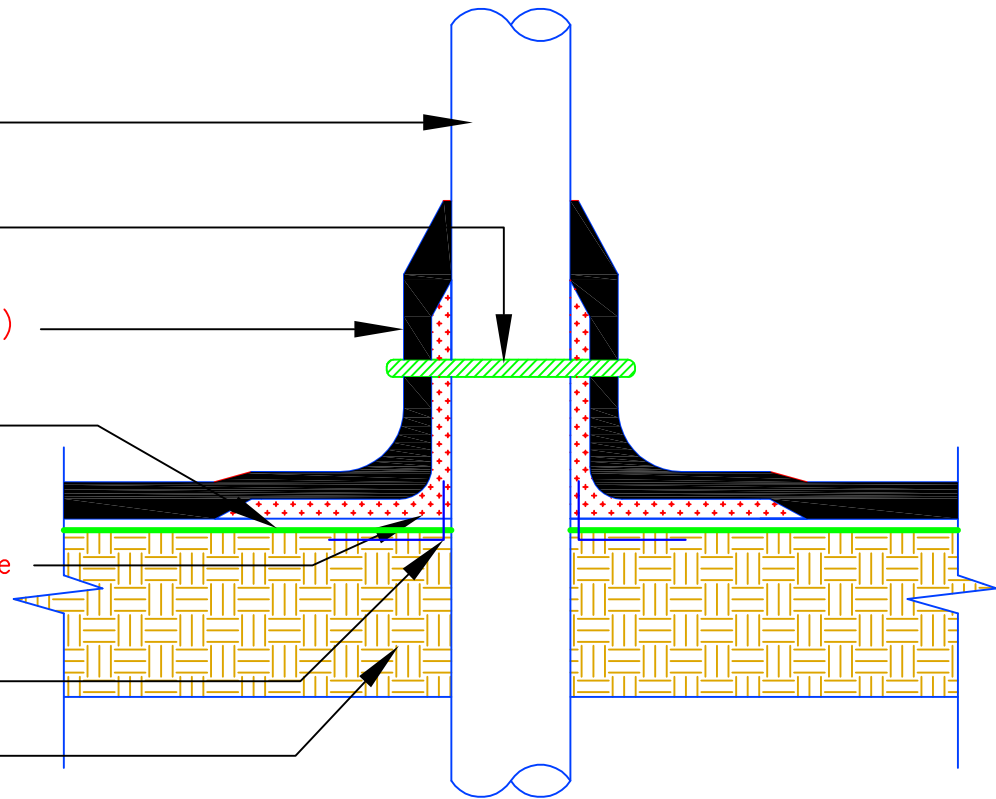
60 Mils (1.5 mm) LIQUID BOOT 1.5" (3.8 cm)
Above Existing Liquid Boot Membrane

VI-20 Geomembrane

3/4" (1.9 cm) Cant At Base Then 60 Mils
(1.5 mm) LIQUID BOOT 3" (7.6 cm) Up the
Penetration And 3" (7.6 cm) Onto Substrate
(Allow to cure overnight before
spraying membrane)

VI-20 Detailing Fabric

Earth



NOTE:
All penetrations shall be cleaned per
specification before LIQUID BOOT is applied.



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GAS VAPOR BARRIER

PENETRATIONS ON EARTH SUBSTRATE (Option 1)

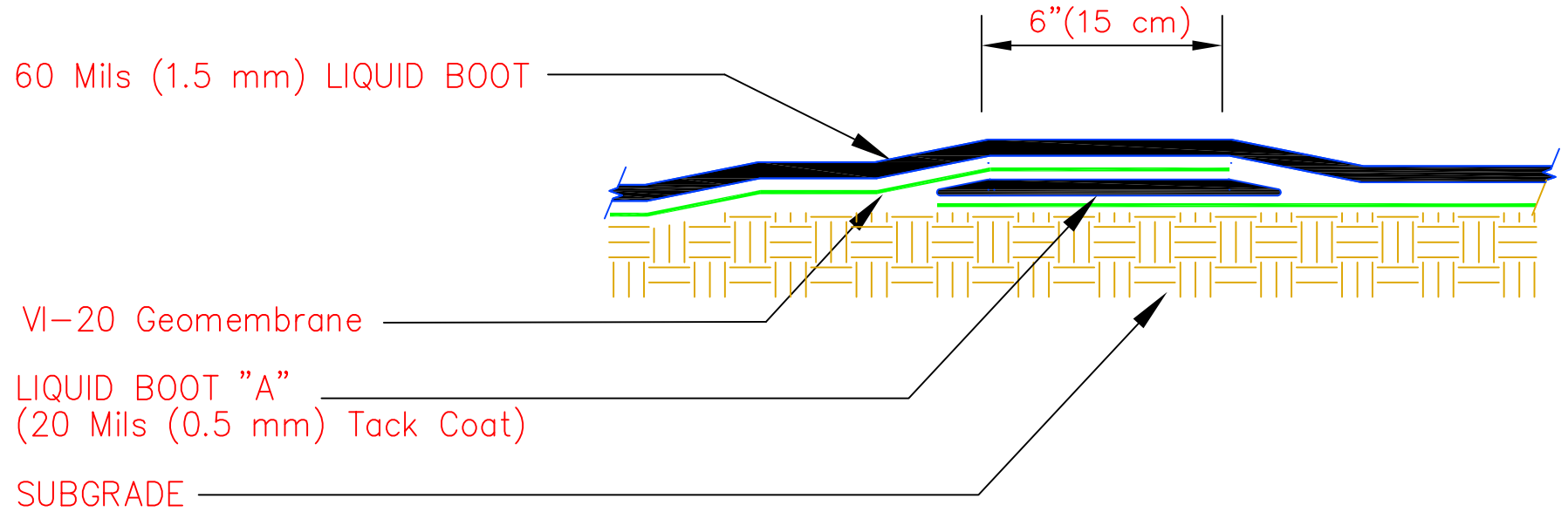
LBP 4.3

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GAS VAPOR BARRIER

MEMBRANE LAP JOINTS ON GEOTEXTILE

LBP 3.3

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APPENDIX G
AIR MONITORING LOGS

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (ppm) | Colorimetric Tube | Comments/Notes |
|--------|---------|---------|-----------------------------------|----------------------|-------------------|-------------------------------------|
| | | | | | Benzene (ppm) | |
| 1/5/15 | 0849 | EBF | Monitoring Station 1 | 0.0 | — | Baseline (prior to excavating) |
| | 0850 | EBF | Station 2 | 0.0 | — | Baseline |
| | 0853 | EBF | Station 3 | 0.0 | — | Baseline |
| | 0855 | EBF | Station 4 | 0.0 | — | Baseline |
| | 0857 | EBF | Station 5 | 0.0 | — | Baseline |
| | 1/5/15 | 0950 | EBF | G10 | 0.0 | — |
| 1/6/15 | 1330 | EBF | I B | 0.0 | — | Ex area A15 |
| | 0915 | EBF | Station 5 | 0.0 | — | Daily |
| | 0919 | EBF | Station 1 | 0.0 | — | Daily |
| | 0921 | EBF | Station 2 | 0.0 | — | Daily |
| | 0930 | EBF | Station 3 | 0.1 | — | Drilling pits |
| | 0946 | EBF | Station 4 | 0.0 | — | Daily |
| | 1240 | EBF | ~E19 | 0.1 | — | Muddy soil w/ creosote color |
| | 1/15/15 | EBF | A25 | 0.0 | — | Excavating cuttings, creosote color |
| | 0835 | EBF | Station 3 | 0.0 | — | Daily |
| | 0840 | | Station 2 | 0.0 | — | |
| | 0841 | | Station 1 | 0.0 | — | |
| | 0843 | | Station 5 | 0.0 | — | |
| | 0845 | | Station 4 | 0.0 | — | |

AIR MONITORING LOG
 Whittaker Property
 Fauntleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|--|---|
| | | | | | Benzene (ppm) | | |
| 1/15/15 | 1050 | EBF | E21-E16 | 0.0 | — | | Drilling AQ (grid E-21-E16) 1-2 mi |
| ↓ | 1300 | EBF | E13 | 0.0 | — | | Loading at Class 3 |
| 1/16/15 | 0805 | EBF | Station 5 | 0.0 | — | | Daily |
| ↓ | 0807 | ↓ | 4 | 0.0 | — | | Daily |
| ↓ | 0820 | ↓ | 3 | 0.0 | — | | Daily → Shoring nearby ^{immediate clean} |
| ↓ | 0822 | ↓ | 2 | 0.0 | — | | |
| ↓ | 0823 | ↓ | 1 | 0.0 | — | | |
| 1/16/15 | 1300 | EBF | E15 by shoring | 0.0 | — | | drilling S 12 |
| 1/19/15 | 0910 | EBF | Station 5 | 0.0 | — | | Daily |
| ↓ | 0912 | ↓ | Station 1 | 0.0 | — | | Daily |
| ↓ | 0913 | ↓ | Station 2 | 0.0 | — | | Daily - drilling shoring E-13 |
| ↓ | 0915 | ↓ | Station 3 | 0.0 | — | | Daily |
| ↓ | 0917 | ↓ | Station 4 | 0.0 | — | | Daily |
| 1/20/15 | 0740 | EBF | Station 5 | 0.0 | — | | Daily |
| ↓ | 0742 | ↓ | 4 | 0.0 | — | | |
| ↓ | 0745 | ↓ | 3 | 0.0 | — | | |
| ↓ | 0748 | ↓ | 2 | 0.0 | — | | |
| ↓ | 0750 | ↓ | 1 | 0.0 | — | | |
| ↓ | 1000 | EBF | E13 | 0.0 | — | | Shoring / stockpiling |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|--|
| | | | | | Benzene (ppm) | |
| 1/20/15 | 1410 | EBF | A25 | 0.1 | — | Moving creosote - odor soil from south catchings |
| 1/21/15 | 1058 | ↓ | Station 5 | 0.0 | — | Daily |
| | 1100 | ↓ | 4 | 0.0 | — | Daily - kitchen dining area |
| | 1102 | ↓ | 3 | 0.0 | — | Daily |
| | 1104 | ↓ | 2 | 0.0 | — | Daily |
| | 1105 | ↓ | 1 | 0.0 | — | Daily |
| 1/21/15 | 1320 | EBF | E15 | 0.0 | — | Loading cross s. HC odors |
| | 1345 | EBF | E15 | 0.0 | — | Loading Class 2 |
| 1/22/15 | 0757 | EBF | Station 5 | 0.0 | — | Daily |
| | 0758 | ↓ | Station 4 | 0.0 | — | ↓ |
| | 0800 | ↓ | " 2 | 0.0 | — | ↓ |
| | 0803 | ↓ | " 3 | 0.0 | — | ↓ |
| | 0805 | ↓ | " 4 | 0.0 | — | ↓ |
| | 0808 | | G9 gnd, area A12 | 0.0 | — | Load out Class 2 |
| | 1055 | | G9, area A12 | 0.0 | — | Load out Class 2 |
| 1/23/15 | 1135 | ↓ | Station 3 | 0.0 | — | Daily |
| | 1137 | ↓ | 4 | 0.0 | — | Daily - kitchen dining |
| | 1140 | ↓ | 5 | 0.0 | — | Daily |
| | 1142 | ↓ | 1 | 0.0 | — | Daily |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (ppm) | Colorimetric Tube | Comments/Notes |
|---------|-----------------|----------------|-----------------------------------|----------------------|-------------------|--|
| | | | | | Benzene (ppm) | |
| 1/23/15 | 1150 | EBF | Station 2 | 0.0 | — | Daily - within detection |
| ↓ | 1230 | EBF | E14 | 0.0 | — | Load at Class 3 |
| ↓ | 1245 | EBF | E14 | 0.2 | — | Load at Class 3 → near penetration marker |
| 1/26/15 | 0715 | EBF | E14 | 0.0 | — | Load at Class 3 |
| ↓ | 0940 | EBF | E14 | 0.0 | — | Load at Class 3 |
| ↓ | 1220 | EBF | E19 | 0.0 | — | Area A2 |
| ↓ | 1225 | EBF | Station 4 | 0.0 | — | Daily |
| ↓ | 1228 | EBF | Station 5 | 0.0 | — | ↓ |
| ↓ | 1229 | EBF | Station 1 | 0.0 | — | ↓ |
| ↓ | 1231 | EBF | Station 2 | 0.0 | — | ↓ |
| 1/27/15 | 0715 | EBF | G9 | 0.0 | — | Load at Class 2 |
| | 1200 | EBF | B15 | 0.0 | — | Load at Class 3 |
| | 1358 | EBF | B15 | 0.0 | — | Load at Class 3 |
| 1/28/15 | 0800 | EBF | Area Station 3 | 0.0 | — | Daily |
| ↓ | 0803 | EBF | Station 4 | 0.0 | — | ↓ |
| ↓ | 0805 | EBF | Station 5 | 0.0 | — | ↓ |
| ↓ | 0806 | EBF | Station 1 | 0.0 | — | ↓ |
| ↓ | 0808 | EBF | Station 2 | 0.0 | — | ↓ |
| ↓ | 0845 | EBF | B15 | 0.0 | — | Load at Class 3 |

AIR MONITORING LOG
 Whittaker Property
 Fauntleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|-------------------------------|
| | | | | | Benzene (ppm) | |
| 1/29/15 | 1100 | EBF | C15 | 0.0 | — | Load at Class 3 |
| + | 1420 | EBF | C15 | 0.0 | — | Load at Class 3 |
| 1/30/15 | 1215 | EBF | E14 | 0.0 | — | Load at Class 3 |
| | 1320 | EBF | E14 | 0.0 | — | Load Class 3 |
| 2/6/15 | 1000 | EBF | E14 | 0.0 | — | Load Class 1 |
| 2/9/15 | 1325 | EBF | B14 | 0.0 | — | Load Class 3 |
| | 1340 | | Station 4 | 0.0 | — | Daily |
| | 1342 | | Station 5 | 0.0 | — | |
| | 1400 | | Station 1 | 0.0 | — | |
| | 1401 | | Station 2 | 0.0 | — | |
| | 1405 | | Station 3 | 0.0 | — | |
| 2/10/15 | 0820 | EBF | A21 | 0.0 | — | Excavating A7 → creosote area |
| | 1210 | EBF | A14 | 0.0 | — | Excavating A10 → faint HC |
| | 1230 | EBF | A14 | 0.0 | — | " " |
| | 1400 | EBF | Station 1 | 0.0 | — | Daily |
| | 1402 | EBF | Station 2 | 0.0 | — | |
| + | 1406 | EBF | Station 3 | 0.0 | — | |
| 2/11/15 | 1120 | EBF | C24 | 0.0 | — | Near creosote piles |
| + | 1240 | EBF | Station 2 | 0.0 | — | Daily |

AIR MONITORING LOG
 Whittaker Property
 Fauntleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (ppm) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 2/11/15 | 1242 | EBF | Station 1 | 0.0 | — | Drilling showing → strong HC odor |
| | 1245 | EBF | Station 5 | 0.0 | — | Daily |
| | 1247 | EBF | Station 4 | 0.0 | — | ↓ |
| | 1250 | EBF | Station 3 | 0.0 | — | ↓ |
| | 1300 | EBF | C1 | 0.0 | — | next to drill rig w/ HC odor |
| 2/12/15 | 0808 | ↓ | Station 2 | 0.0 | — | Daily |
| | 0909 | ↓ | Station 1 | 0.0 | — | Daily → drilling showing w/ HC odor |
| | 0910 | ↓ | B1 | 0.0 | — | next to drilling cuttings w/ HC odor |
| | 0911 | ↓ | Station 5 | 0.0 | — | Daily |
| | 0912 | ↓ | Station 4 | 0.0 | — | Daily |
| | 0914 | ↓ | Station 3 | 0.0 | — | Daily |
| | 1330 | EBF | E25 | 0.0 | — | area A2 |
| 2/13/15 | 0853 | JSL | station 3 | 0.0 | — | Daily → Near excavator while digging in E25 |
| | 0858 | JSL | Station 4 | 0.0 | — | Daily |
| | 0901 | JSL | Station 5 | 0.0 | — | Daily |
| | 0903 | JSL | Station 1 | 0.0 | — | Daily |
| | 0905 | JSL | Station 2 | 0.0 | — | Daily |
| 2/16/15 | 1205 | EBF | B19 | 0.0 | — | Dozing class 1 |
| | 1415 | EBF | Station 3 | 0.0 | — | Daily |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes | |
|---------|---------|---------|-----------------------------------|----------------------|-------------------|----------------|-------------------------|
| | | | | | Benzene (ppm) | | |
| 2/10/15 | 1418 | EBF | Station 2 | 0.0 | — | Dark | |
| ↓ | 1420 | EBF | Station 1 | 0.0 | — | ↓ | |
| | 1422 | EBF | Station 5 | 0.0 | — | | |
| | 1423 | EBF | Station 4 | 0.0 | — | | |
| | 2/10/15 | 0840 | EBE | station 3 | 0.0 | | — |
| ↓ | 0842 | EBE | Station 4 | 0.0 | — | ↓ | |
| | 0843 | EBE | Station 5 | 0.0 | — | | |
| | 0844 | EBE | Station 1 | 0.0 | — | | |
| | 0845 | EBF | Station 2 | 0.0 | — | | |
| | 0846 | EBF | A14 | 0.0 | — | | Load class 1-2 |
| | 0950 | EBF | D13 | 0.0 | — | | Load creosote over soil |
| | 1210 | EBF | D13 | 0.0 | — | | Load creosote/class 3 |
| | 2/25/15 | 0718 | EBE | Station 3 | 0.0 | | — |
| ↓ | 0720 | EBF | 4 | 0.0 | — | ↓ | |
| | 0721 | EBF | 5 | 0.0 | — | | |
| | 0722 | EBF | 1 | 0.0 | — | | |
| | 0724 | EBE | 2 | 0.0 | — | | |
| | 0808 | EBE | FS | 0.0 | — | | Load (class) |
| | 1145 | EBF | DI | 0.0 | — | | excavating DI |

AIR MONITORING LOG
Whittaker Property
Fautleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|--|------------------|
| | | | | | Benzene (ppm) | | |
| 2/24/15 | 0821 | EBF | Station 3 | 0.0 | — | | Daily |
| | 0825 | EBF | Station 4 | 0.0 | — | | |
| | 0826 | EBF | Station 5 | 0.0 | — | | |
| | 0827 | EBF | Station 1 | 0.0 | — | | |
| | 0828 | EBF | Station 2 | 0.0 | — | | |
| 2/24/15 | 0910 | EBF | F6 | 0.0 | — | | Load Class 1A |
| | 1400 | EBF | H7 | 0.0 | — | | Dzizing Class 1A |
| 2/25/15 | 0750 | EBF | Station 4 | 0.0 | — | | Daily |
| | 0751 | EBF | Station 5 | 0.0 | — | | |
| | 0752 | EBF | Station 1 | 0.0 | — | | |
| | 0753 | EBF | Station 2 | 0.0 | — | | |
| | 0755 | EBF | Station 3 | 0.0 | — | | |
| | 0815 | EBF | H2 | 0.0 | — | | |
| | 0850 | EBF | H2 | 0.0 | — | | |
| | 1350 | EBF | H5 | 0.0 | — | | |
| 3/3/15 | 0920 | EBF | Station 3 | 0.0 | — | | Daily |
| | 0922 | EBF | Station 4 | 0.0 | — | | |
| | 0924 | EBF | Station 5 | 0.0 | — | | |
| | 0925 | EBF | Station 1 | 0.0 | — | | |

AIR MONITORING LOG
 Whittaker Property
 Fauntleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes | | | | | |
|---------|--------|---------|-----------------------------------|----------------------|-------------------|--------------------------------|-------|--|--|--|--|
| | | | | | Benzene (ppm) | | | | | | |
| 3/31/15 | 0926 | EBF | Station 2 | 0.0 | — | Daily | | | | | |
| | 1052 | CBF | B20 | 0.0 | — | Cresote odor, excavating piles | | | | | |
| | 1150 | EBF | B19/A19 | 0.0 | — | " " | | | | | |
| | 1330 | EBF | C19 | 0.0 | — | cresote odor, excavating piles | | | | | |
| | 3/4/15 | 1030 | EBF | Station 2 | 0.0 | — | Daily | | | | |
| | 1031 | | Station 1 | 0.0 | — | | | | | | |
| | 1032 | | Station 5 | 0.0 | — | | | | | | |
| | 1034 | | Station 4 | 0.0 | — | | | | | | |
| | 1036 | | Station 3 | 0.0 | — | | | | | | |
| | 1150 | EBF | B22 | 0.0 | — | dormant creosote piles, spray | | | | | |
| | 1242 | EBF | B27 | 0.0 | — | " " | | | | | |
| | 3/5/15 | 1105 | EBF | Station 3 | 0.0 | — | Daily | | | | |
| | | 1107 | EBF | Station 2 | 0.0 | — | | | | | |
| 1108 | | EBF | Station 2 | 0.0 | — | | | | | | |
| 1109 | | EBF | Station 5 | 0.0 | — | | | | | | |
| 1110 | | EBF | Station 6 | 0.0 | — | | | | | | |
| 1125 | | CBF | A15/A15 | 0.0 | — | | | | | | |
| 1215 | | EBF | C22 | 0.0 | — | | | | | | |
| 1300 | | EBF | C20 | 0.0 | — | | | | | | |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|--------|------|---------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 3/6/15 | 0855 | EBF | B25 | 1.2 | — | Strong HC odor, excavating |
| | 0900 | EBF | B25 | 0.9 | — | Strong HC odor |
| | 0902 | EBF | B25 / C25 | 0.0 | — | mod HC odor |
| | 0915 | EBF | B25 / C25 | 0.0 | — | mod HC odor, breathing zone |
| | 0945 | EBF | B25 / C25 | 0.0 | — | faint HC odor, creosote faint |
| | 1100 | EBF | A24 / A23 | 0.0 | — | creosote odor |
| | 1350 | EBF | Station 2 | 0.0 | — | Daily |
| | 1351 | EBF | Station 1 | 0.0 | — | |
| | 1352 | EBF | Station 5 | 0.0 | — | |
| | 1354 | EBF | Station 4 | 0.0 | — | |
| | 1356 | EBF | Station 3 | 1.2 | — | Above generator above generator er |
| | 1415 | EBF | A23 | 0.0 | — | Kitchen work space |
| 3/9/15 | 1030 | EBF | Station 3 | 0.0 | — | Daily |
| | 1033 | EBF | Station 4 | 0.0 | — | |
| | 1034 | EBF | Station 5 | 0.0 | — | |
| | 1035 | EBF | Station 1 | 0.0 | — | |
| | 1036 | EBF | Station 2 | 0.0 | — | |
| | 1043 | EBF | A13/B13 | 0.0 | — | Dam wind tunnel at Zone class 1A |
| | 1220 | EBF | B25 | 0.0 | — | excavating SW corner |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|-------------------------------------|
| | | | | | Benzene (ppm) | |
| 3/10/15 | 0830 | EBF | E22 | 0.0 | — | String creosote |
| | 0844 | EBF | D25 | 2.0 | — | chainsaw exhaust |
| | 1010 | EBF | D25 | 1.5 | — | Exhaust fumes |
| | 1040 | EBF | Station 2 | 0.0 | — | Daily |
| | 1042 | EBF | Station 1 | 0.0 | — | |
| | 1043 | EBF | Station 5 | 0.0 | — | |
| | 1044 | EBF | Station 4 | 0.0 | — | |
| | 1046 | EBF | Station 3 | 0.0 | — | |
| | 1123 | EBF | D18 | 0.0 | — | |
| | 1240 | EBF | D23 | 0.0 | — | In Class 3 area, no odor |
| | 1255 | EBF | E21 | 0.4 | — | Strong HC odor below |
| 3/11/15 | 0810 | EBF | E21 | 0.0 | — | Paint HC as EM moving material from |
| | 1030 | EBF | E20/E19 | 0.0 | — | excavating w/ HC odor. |
| | 1200 | EBF | L11 | 0.0 | — | Strong creosote odor |
| | 1303 | EBF | Station 4 | 0.0 | — | Daily |
| | 1304 | EBF | Station 5 | 0.0 | — | |
| | 1305 | EBF | Station 1 | 0.0 | — | |
| | 1306 | EBF | Station 2 | 0.0 | — | |
| | 1307 | EBF | Station 3 | 0.0 | — | |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|-------------------------------------|
| | | | | | Benzene (ppm) | |
| 3/12/15 | 0723 | EBF | E22 | 0.0 | 0.0 | Facing west wall, HC odor, creosote |
| | 0745 | EBF | E21 | 0.0 | — | Creosote odor |
| | 0940 | EBF | E22 | 0.0 | — | Creosote odor |
| | 1310 | EBF | E20 | 0.0 | — | HC odor |
| | 1420 | EBF | Station 2 | 0.0 | — | Daily |
| | 1421 | EBF | Station 1 | 0.0 | — | |
| | 1422 | EBF | Station 5 | 0.0 | — | |
| | 1423 | EBF | Station 4 | 0.0 | — | |
| | 1425 | EBF | Station 3 | 0.0 | — | |
| | 1500 | EBF | E16 | 0.0 | — | Remaining creosote pile |
| 3/13/15 | 0840 | EBF | E15 | 0.0 | — | Excavating area A15 |
| | 0903 | EBF | E15 | 0.0 | — | moving soil w/ HC/creosote odor |
| | 1100 | EBF | A15 | 0.0 | — | loading glass |
| | 1200 | EBF | Station 3 | 0.0 | — | above down |
| 3/16/15 | 1032 | EBF | Station 2 | 0.0 | — | Daily |
| | 1033 | | Station 2 | 0.0 | — | |
| | 1034 | | Station 5 | 0.0 | — | |
| | 1035 | | Station 4 | 0.0 | — | |
| | 1038 | | Station 3 | 0.0 | — | |

AIR MONITORING LOG
 Whittaker Property
 Fauntleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|--|
| | | | | | Benzene (ppm) | |
| 3/16/15 | 1110 | EBF | E11 | 0.0 | — | Excavating Class 1A |
| I | 1310 | EBF | E12 | 0.0 | — | " " |
| 3/17/15 | 1033 | EBF | Station 3 | 0.0 | — | Daily |
| I | 1035 | EBF | Station 4 | 0.0 | — | I |
| | 1036 | EBF | Station 5 | 0.0 | — | |
| | 1037 | EBF | Station 1 | 0.0 | — | |
| | 1038 | EBF | Station 2 | 0.0 | — | |
| | 1045 | EBF | A11 | 0.0 | — | |
| I | 1200 | EBF | A11 | 0.0 | — | Loading Class 1 |
| 3/19/15 | 0815 | EBF | E18 | 0.0 | — | West well. |
| I | 0900 | EBF | E20 | 0.0 | — | West well. Found concrete debris. from well |
| | 1042 | EBF | Station 3 | 0.0 | — | Daily |
| | 1044 | EBF | Station 2 | 0.0 | — | I |
| | 1045 | EBF | Station 1 | 0.0 | — | |
| | 1047 | EBF | Station 5 | 0.0 | — | |
| | 1049 | EBF | Station 4 | 0.0 | — | |
| | | | | | | |
| 3/23/15 | 0925 | EBF | A22 (A3) | 1.3 | — | Breathing space pump test at Rm 3 |
| I | 1200 | EBF | E8 | 0.0 | — | Load Class 3 |
| I | 1330 | EBF | B6 | 0.0 | — | Load Class 3 from H-8 |

AIR MONITORING LOG
 Whittaker Property
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 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | | Comments/Notes |
|---------|---------|---------|-----------------------------------|----------------------|-------------------|---|--------------------------------|
| | | | | | Benzene (ppm) | | |
| 3/24/15 | 0855 | EBF | B6 | 0.0 | — | | Load class 3, H-8 |
| | 1008 | EBF | B6 | 0.0 | — | | Strong HCl odor from H-8 |
| | 1210 | EBF | B6 | 0.0 | — | | Load trucks, HCl odor |
| | 1225 | EBF | Station 2 | 0.0 | — | | Daily |
| | 1455 | EBF | Station 4 | 0.0 | — | | |
| | 1456 | EBF | Station 5 | 0.0 | — | | |
| | 1458 | EBF | Station 3 | 0.0 | — | | |
| | 3/25/15 | 0800 | EBF | E6 | 0.0 | — | |
| | 0911 | EBF | Station 5 | 0.0 | — | | Daily |
| | 0912 | EBF | Station 4.2 | 0.0 | — | | |
| | 0913 | EBF | Station 3.2 | 0.0 | — | | |
| | 0915 | EBF | Station 3 | 0.0 | — | | |
| | 0917 | EBF | Station 4 | 0.0 | — | | |
| | 3/25/15 | 1030 | EBF | B6 C6 | 0.0 | — | |
| | 1141 | EBF | C6 | 0.0 | — | | HCl odor |
| | 3/26/15 | 0736 | G5 | 0.0 | — | | Loading class 3 from 16-9 |
| | 0856 | EBF | E5 | 0.0 | — | | Load class 3, H-7 |
| | 1100 | EBF | B2 | 0.6 | — | | Load class 3, SKS, strong odor |
| | 1101 | EBF | A2 | 1.2 | — | | Load class 3, SKS shell |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|--------|---------|-----------------------------------|----------------------|-------------------|--------------------------|
| | | | | | Benzene (ppm) | |
| 3/22/15 | 1103 | EBF | Station 2 | 0.3 | — | SKS loading, strong odor |
| ↓ | 1104 | EBF | Station 1 | 0.4 | — | SKS loading, strong odor |
| | 1106 | EBF | A5 | 10.2 | — | SKS, very strong odor |
| | 1139 | EBF | A4 | 2.9 | — | SKS, strong HC odor |
| | 1243 | EBF | A4 | 0.0 | — | SKS faint - no HC odor |
| | 1244 | EBF | Station 1 | 0.0 | — | Daily/loading HC odor |
| | 1310 | EBF | Station 4 | 0.0 | — | Daily |
| 3/30/15 | 0742 | EBF | Station 2 | 0.0 | — | Daily |
| ↓ | 0743 | EBF | Station 1 | 0.0 | — | ↓ |
| | 0744 | EBF | Station 5 | 0.0 | — | |
| | 0746 | EBF | Station 4 | 0.0 | — | |
| | 0816 | EBF | F6 | 0.0 | — | |
| | 1010 | EBF | H7 | 0.0 | — | |
| | 4/2/15 | 1005 | EBF | C1 | 0.0 | |
| ↓ | 1030 | EBF | C1 | 0.0 | — | " " |
| | 1240 | EBF | A1 | 1.4 | — | Strong HC odor |
| | 000 | EBF | A1 | 3.3 | — | Strong HC odor |
| | 1355 | EBF | Station 1 | 0.0 | — | Daily |
| | 1556 | EBF | Station 2 | 0.0 | — | ↓ |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|----------------|
| | | | | | Benzene (ppm) | |
| 4/2/15 | 1357 | EBF | Station 5 | 0.0 | — | Daily |
| | 1358 | EBF | Station 4 | 0.0 | — | ↓ |
| | 1408 | EBF | Station 3 | 0.0 | — | |
| 4/3/15 | 0940 | EBF | Station 3 | 0.0 | — | |
| | 0942 | | Station 4 | 0.0 | — | ↓ |
| | 0943 | | Station 5 | 0.0 | — | |
| | 0945 | | Station 1 | 0.0 | — | |
| | 0946 | | Station 2 | 0.0 | — | |
| 4/7/15 | 0750 | EBF | Station 3 | 0.0 | — | |
| | 0752 | EBF | Station 2 | 0.0 | — | ↓ |
| | 0753 | EBF | Station 1 | 0.0 | — | |
| | 0754 | EBF | Station 5 | 0.0 | — | |
| | 0755 | EBF | Station 4 | 0.0 | — | |
| 4/8/15 | 0827 | JSL | Station 3 | 0.0 | — | |
| | 0828 | JSL | Station 4 | 0.0 | — | ↓ |
| | 0830 | JSL | Station 5 | 0.0 | — | |
| | 0833 | JSL | Station 1 | 0.0 | — | |
| | 0835 | JSL | Station 2 | 0.0 | — | |
| 4/10/15 | 0915 | JSL | Station 2 | 0.0 | — | |

AIR MONITORING LOG
Whittaker Property
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Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|---------------------------|
| | | | | | Benzene (ppm) | |
| 4/10/15 | 0917 | JSL | Station 3 | 0.0 | — | Daily |
| | 0919 | JSL | Station 4 | 0.0 | — | |
| | 0922 | JSL | Station 5 | 0.0 | — | |
| | 0925 | JSL | Station 1 | 0.0 | — | |
| 4/14/15 | 1038 | JSL | Station 1 | 0.0 | — | Daily (EH digging at SKS) |
| | 1039 | JSL | Station 2 | 0.0 | — | |
| | 1041 | JSL | Station 3 | 0.0 | — | |
| | 1043 | JSL | Station 4 | 0.0 | — | |
| | 1045 | JSL | Station 5 | 0.0 | — | |
| 4/15/15 | 1102 | JSL | Station 1 | 0.0 | — | Daily |
| | 1105 | JSL | Station 2 | 0.0 | — | |
| | 1108 | JSL | Station 3 | 0.0 | — | |
| | 1111 | JSL | Station 4 | 0.0 | — | |
| | 1113 | JSL | Station 5 | 0.0 | — | |
| 4/16/16 | 1029 | JSL | Station 1 | 0.0 | — | Daily |
| | 1031 | JSL | Station 5 | 0.0 | — | |
| | 1033 | JSL | Station 4 | 0.0 | — | |
| | 1036 | JSL | Station 3 | 0.1 | — | |
| | 1038 | JSL | Station 2 | 0.0 | — | |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|--------------------------|--|--|
| | | | | | Benzene (ppm) | | |
| 4/17/15 | 0715 | EBF | A1 | 1.4 | — | | excavate A2 ground HL |
| | 0900 | EBF | A2 | 6.2 | — | | excavate A2, string HL |
| | 0950 | EBF | A2 | 10.1 | — | | excavate A2 string HL |
| | 1100 | EBF | Station 2 | 0.6 | — | | Daily, final HL from station |
| | 1111 | EBF | Station 1 | 2.4 | — | | Daily ground, no HL |
| | 1102 | EBF | Station 5 | 0.3 | — | | |
| | 1153 | EBF | Station 4 | 0.3 | — | | |
| | 1120 | EBF | A2 | 1.7 | — | | Ambient A2 in excavation |
| | 1124 | EBF | A2 | 3.3 | 0.0 ¹¹²⁴⁻¹¹³³ | | Excavate A2/EB; put benzene 19 minutes |
| | 1125 | EBF | A2 | 15.2 | — | | |
| | 1133 | EBF | A2 | 22.1 | — | | PIDs: 1+3 = 22.1 |
| | 1250 | EBF | A1/B1 | 1.4 | — | | excavate B1 |
| 4/20/15 | 0820 | EBF | B1 | 2.4 | — | | Excavate (Plan 1A in C1) |
| | 0835 | EBF | A2 | 0.2 | — | | Tablets x / HL odd |
| 4/22/15 | 0915 | EBF | Station 3 | 0.0 | — | | Daily |
| | 0917 | EBF | Station 4 | 0.0 | — | | |
| | 0918 | EBF | Station 5 | 0.0 | — | | |
| | 0919 | EBF | Station 1 | 0.0 | — | | |
| | 0926 | EBF | Station 2 | 0.0 | — | | |

AIR MONITORING LOG
Whittaker Property
Fauntleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|---------------------------------|
| | | | | | Benzene (ppm) | |
| 4/23/15 | 0720 | EBF | B2 | 3.6 | — | Loading Class 3, ex class 3 |
| | 0750 | EBF | B2 | 1.7 | — | out of Class 3, Class 3 in flow |
| | 0810 | EBF | B4 | 2.0 | — | Loading Class 3 |
| | 1145 | EBF | Station 2 | 0.0 | — | Density |
| | 1146 | EBF | Station 1 | 0.0 | — | |
| | 1147 | EBF | Station 5 | 0.0 | — | |
| | 1148 | EBF | Station 4 | 0.0 | — | |
| | 1150 | EBF | Station 3 | 0.0 | — | |
| | 1300 | EBF | T2 | 0.0 | — | Class 2 / Enclosed |
| 4/24/15 | 1100 | EBF | B5 | 0.0 | — | Load Class 3 |
| | 1225 | EBF | B5 / CG | 0.0 | — | Load Class 3 |
| | 1225 | EBF | Station 2 | 0.0 | — | Density |
| | 1227 | EBF | Station 1 | 0.0 | — | |
| | 1325 | EBF | D4 / D5 | 0.6 | — | Class 3 area |
| | 1332 | EBF | D5 | 1.2 | — | Class 3 or bottom |
| 4/27/15 | 0821 | EBF | Station 2 | 0.0 | — | Density |
| | 0822 | EBF | Station 1 | 0.0 | — | |
| | 0823 | EBF | Station 5 | 0.0 | — | |
| | 0825 | EB | Station 4 | 0.0 | — | |

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|---------|------|---------|-----------------------------------|----------------------|-------------------|--|----------------------------|
| | | | | | Benzene (ppm) | | |
| 4/27/15 | 0726 | EBF | Station 3 | 0.0 | — | | Daily |
| | 0730 | EBF | A1 | 2.0 | — | | Class 3 |
| | 0737 | EBF | A2 | 6.4 | — | | Class 3 |
| | 0738 | EBF | A3 | 6.0 - 0.3 | 0.0 | | Class 3 A1/A2 |
| | 0741 | EBF | Station 2 | 0.1 | 0.0 | | Station 2 |
| | 0741 | EBF | Station 1.5 | 13.4 | 2.0 | | |
| | 0742 | EBF | Station 1 | 11.7 | 0.0 | | |
| | 0744 | EBF | Station 1.5 (A2) | 17.4 | 0.0 | | Dimmed Suckpile, Strong HC |
| | 0745 | EBF | A2 | 44.3 | — | | |
| | 0747 | EBF | A4 | 20.6 | — | | Dimmed Suckpile |
| | 0748 | EBF | A1 | 34.1 | — | | Dimmed ex area 'trench' |
| | 0749 | EBF | Station 1.5 | 21.4 | — | | Dimmed Strong HC dig, A1 |
| | 0749 | EBF | Station 1 | 1.1 | — | | dig, A1 |
| | 0749 | EBF | Close on sidewalk | 0.4 | — | | no HC odor |
| | 0755 | EBF | A3 | 30.4 | 0.0 | | Strong HC odor |
| 4/28/15 | 0708 | EBF | A5 | 11.1 | — | | Load Class 3 |
| | 0710 | EBF | A3 | 6.9 | — | | Excavate Class 3 |
| | 0730 | EBF | Station 2 | 10.6 | — | | Daily load Class 3 |
| | 0731 | EBF | Station 1 | 0.4 | — | | " " |

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|--------|-----------|---------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 4/2/15 | 0732 | EBF | C1, sidewalk | 0.1 | — | Lead Class 3 |
| | 0815 | EBF | A2 | 60.2 | — | Lead Class 3, excavate A2 |
| | 0825 | EBF | A2 | 118 | — | excavate A1 |
| | 0841 | EBF | Station 2 | 16.2 | — | Lead Class 3 |
| | 0842 | EBF | Station 1 | 3.6 | — | excavating A1 corner below |
| | 0900 | EBF | A1 | 9.1 | — | Dig B1 |
| | 1010 | EBF | B2 | 3.2 | — | Lagging B2 wall |
| | 1040 | EBF | B1 | 9.2 | — | excavate B1, B2 |
| | 1042 | EBF | B1 / A1 | 71.6 / 4.0 | — | excavate C1 / Lag A1 |
| | 1150 | EBF | B1 | 154 | — | excavate B1-A1 |
| | 1151 | EBF | A2 | 4.1 | — | Lagging area |
| | 1226-1235 | EBF | A2 | 246 - 61.4 | 0.0 | excavate A1. ^{deposited in} strongest smelling |
| | 1237 | GCP | A5, loaded truck | 3.0 | — | |
| | 1315 | EBF | A2 | 58.7 | — | excavate B2/A2 |
| | 1345 | EBF | A1-A2 | 11.6 | — | done excavating |
| | 1432 | EBF | Station 2 | 0.4 | — | Lead Class 3 |
| | 1433 | EBF | Station 1 | 0.3 | — | Lead Class 3 |
| | 1446 | IBF | DS, road | 34.6 | — | Passive diff. Stackpole |
| | 1525 | EBF | C4 | 70.3 | — | under Class 5 pit |

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|---------|------|---------|-----------------------------------|---------------------|-------------------|-------------------------------|
| | | | | | Benzene (ppm) | |
| 4/22/15 | 0700 | EBF | A1 | 17.2 | — | |
| | 0700 | EBF | A1 | 52.4 | — | Extrac A2, Limit 40 |
| | 0758 | EBF | A2 | 102.4 | — | Extrac A1 |
| | 0800 | EBF | A3 | 78.9 | — | |
| | 0838 | EBF | Station 5 | 0.2 | — | Daily |
| | 0839 | EBF | Station 1 | 6.4 | — | Extrac A2, Limit 40 A-1 A1 |
| | 0840 | EBF | Station 2 | 2.9 | — | |
| | 0843 | EBF | Station 3 | 0.0 | — | |
| | 0845 | EBF | Station 4 | 0.0 | — | |
| | 0925 | EBF | A3 | 22.4 | — | Logging, extrac A1 |
| | 0933 | EBF | A3 | 52.0 | — | Logging, extrac |
| | 0957 | EBF | A3 | 7.6 | — | No ex activity |
| | 1020 | EBF | A3 | 22.1 | — | Logging, extrac station |
| | 1210 | EBF | A1 | 3.2 | — | Logging, extrac |
| | 1370 | EBF | A4 | 0.4 | — | Extrac A4/A5/B4/B2 |
| 4/30/15 | 0730 | EBF | A5 | 0.0 | — | Extrac Class 3 |
| | 1021 | EBF | Station 2 | 0.0 | — | Daily |
| | 1022 | EBF | Station 1 | 0.0 | — | Daily |
| | 1024 | EBF | Station 5 | 0.0 | — | |
| 4/30/15 | 1024 | EBF | Station 3 | 0.0 | — | |

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|--------|------|---------|-----------------------------------|----------------------|-------------------|-----------------------------|------------------|
| | | | | | Benzene (ppm) | | |
| 5/1/15 | 0816 | EBF | Station 5 | 0.0 | — | Daily | |
| | 0818 | | Station 1 | 0.0 | — | | |
| | 0819 | | Station 2 | 0.0 | — | | |
| | 0822 | | Station 3 | 0.0 | — | | |
| | 0824 | | Station 4 | 0.0 | — | | |
| | 0932 | | C4 | 0.3 | — | Excavate Erickson | |
| | 1025 | | E5 | 0.2 | — | Excavate Erickson | |
| | 1141 | | J5 | 0.0 | — | Excavate soil w/ HC column | |
| 5/4/15 | 0736 | EBF | D8 | 0.3 | — | Excavate D8 | |
| | 1005 | EBF | C5 | 2.1 | — | Excavate (class 5) in C5 | |
| | 1037 | EBF | C4 C4 | 5.1 | — | excavate C5 | |
| | 1045 | EBF | Station 1 | 0.0 | — | Daily | |
| | 1047 | EBF | Station 2 | 0.0 | — | Daily | |
| 5/5/15 | 1016 | EBF | Station 3 | 0.0 | — | Daily | |
| | 1018 | EBF | Station 4 | 0.0 | — | Daily | |
| | 1019 | EBF | Station 5 | 0.0 | — | | |
| | 1020 | EBF | Station 1 | 0.0 | — | | |
| | 1021 | EBF | Station 2 | 0.0 | — | | |
| | 1130 | EBF | A4 | 0.0 | — | | Excavate A4 wall |

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|---------|-----------|---------|-----------------------------------|----------------------|-------------------|--|--|----------------------------------|
| | | | | | Benzene (ppm) | | | |
| 5/16/15 | | EBF | Station 3 | 0.0 | — | | Dark | |
| | | EBF | Station 4 | 0.0 | — | | ↓ | |
| | | EBF | Station 5 | 0.0 | — | | | |
| | | EBF | Station 2 | 0.0 | — | | | |
| | | EBF | Station 2 | 0.0 | — | | | |
| | | EBF | | | — | | | |
| 5/21/15 | 0834 | EBF | Station 2 | 0.0 | — | | Dark | |
| | 0835 | EBF | Station 1 | 0.5 | — | | ↓ | |
| | 0836 | EBF | Station 5 | 0.0 | — | | | |
| | 0837 | EBF | Station 4 | 0.0 | — | | | |
| | 0839 | EBF | Station 3 | 0.0 | — | | | |
| | 1300 | EBF | A6 | 0.4 | — | | | Moving Class 3 storage, HC odor |
| | 1440 | EBF | C6 | 3.3 | — | | | Moving class 3, pungent, HC odor |
| | 1442 | EBF | Station 2 | 1.8 | — | | | faint HC odor |
| | 1443 | EBF | Station 1 | 0.5 | — | | | No HC odor, pungent or Class 3 |
| | 1447 | EBF | B7 | 12.1 | — | | | Dammond Class 3, strong HC |
| | 1448 | EBF | C3 | 6.1 | — | | | Next to excavation |
| | 1457-1506 | EBF | B2/B3 | 2.2-6.0 | | | Don't see active ex. area, strong HC odor for benzene test | |
| | 1515 | EBF | B2 | 41.2 | — | | Class 3 | |

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|--------|-----------|---------|-----------------------------------|----------------------|-------------------|--------------------------------------|
| | | | | | Benzene (ppm) | |
| 5/8/15 | 0930 | EBF | A8-Load wt | 2.3 | — | on load wt pad |
| | 0932 | EBF | C2 | 5.6 | — | Excavate Class 3 |
| | 0938 | EBF | C2 | 52.6 | — | Excavate Class 3 - Dm respiration |
| | 1007 | EBF | Station 2 | 0.8 | — | Daily Upwind Class 3 |
| | 1008 | EBF | Station 1 | 0.1 | — | ↓ |
| | 1009 | EBF | C1: Pipeline sidewalk | 0.0 | — | |
| | 1013-1022 | EBF | C1 | 21.1-129 | 0.0 | Excavate B1 |
| | 1032 | EBF | D2, up top | 293 | — | Excavate B1 (pungent off PID) |
| | 1055 | EBF | D2 up top | 62.1 | — | Excavate B1-A1 |
| | 1106 | EBF | C2 up top | 15.3 | — | Excavate C2, B2 |
| | 1215 | EBF | B7 | 16.1 | — | Bailing Class 3 |
| | 1216 | | Station 2 | 6.0 | — | Daily loading class 3 |
| | 1217 | | Station 1 | 0.4 | — | ↓ |
| | 1218 | | C1: sidewalk | 0.3 | — | |
| | 1220 | | Station 5 | 0.2 | — | |
| | 1221 | | Station 4 | 0.1 | — | |
| | 1223 | | Station 3 | 0.8 | — | |
| | 1229 | | A10 | 6.8 | — | in load wt |
| | 1250 | | A1 → claim in ex | 268 | — | In excavatn. digging A2 |

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|---------|---------|---------|-----------------------------------|----------------------|-------------------|--------------------------------|
| | | | | | Benzene (ppm) | |
| 5/10/15 | 1305 | EBF | C7, driveway stack/cx | 26.8 | — | Mang truck |
| ⊥ | 1337 | EBF | B2/C2, up top | 7.9 | — | Say packs in class 3 |
| 5/11/15 | 0721 | EBF | sidewalk A7 | 8.1 | — | Local truck |
| | 0730 | EBF | C2, up top | 22.3 | — | Exhaust Class 3 |
| | 0750 | EBF | C2, in ex | 26.3 | — | Exhaust Class 3 |
| | 0829 | EBF | B4 | 2.0 | — | Exhaust/Bul Class 3 |
| | 0855 | EBF | A7 sidewalk / across Fautleroy | 103 / 1.3 | — | Load class 3 / across street |
| | 0856 | EBF | station 1 | 6.1 | — | Faint Hf valve |
| | 0857 | EBF | C1, sidewalk | 0.7 | — | Faint Hf valve |
| | 0858 | EBF | Station 2 | 22.3 | — | Strong Hf valve |
| | 0930 | EBF | C2, up top | 17.1 | — | Ex Class 3 |
| | 1020-28 | EBF | A7 sidewalk next to stack/cx | 22-26.8 ppm | 0.0 | Pull truck while loading truck |
| | 1200 | EBF | Station 2 | 36.2 | — | Local class 3 |
| | 1201 | EBF | Station 1 | 8.1 | — | Local class 3 |
| | 1207 | EBF | C1 sidewalk | 5.4 | — | Local class 3 |
| | 1404 | EBF | B3 | 88.1 | — | Exhaust M4 |
| | 1500 | EBF | B2 | 70.3 | — | Exhaust B3 |
| 5/12/15 | 0742 | EBF | B4 | 7.5 | — | Exhaust B4 |
| ⊥ | 0670 | EBF | A7 | 125 | — | Pest hole A2 - P3, pinholes |

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|---------|---------|---------|-----------------------------------|----------------------|-------------------|--|
| | | | | | Benzene (ppm) | |
| 5/12/15 | 0925 | EBF | Sidewalk | 5.2 | — | Lead Class 3 |
| | 1122 | EBF | B3 | 10.8 | — | Ex south wall (B4/A4) |
| | 1315 | EBF | E5 | 7.1 | — | Strong HC, E4 |
| | 1450 | EBF | E5 | 3.4 | — | Mod HC |
| | 5/13/15 | 0725 | EBF | A4, up drive | 22.8 | — |
| | 0726 | EBF | " " | 63.7 | — | Dig A3 " |
| | 0729 | EBF | A1 | 69.8 | — | Dig A2 |
| | 0732 | EBF | Station 2 | 13.7 | — | Dig A2 |
| | 0733 | EBF | Station 1 | 10.1 | — | Dig A2/A1 |
| | 0735-45 | EBF | Station 1/2 (Fauntleroy sidewalk) | 4.0 - 35.4 | 0.0 | Pull tube, Strong HC odor Wind towards Fauntleroy |
| | 0810 | EBF | Station 1/2 | 28.1 | — | Strong HC odor |
| | 0812 | EBF | Station 1 | 9.8 | — | Mod HC |
| | 0813 | EBF | C1, sidewalk | 2.0 | — | Faint HC |
| | 0834 | EBF | C1, ex | 17.8 | — | Strong HC, ex C1 |
| | 0838 | EBF | C1, ex; parking class 3 | 72.3 | — | Strong HC, parking class 3 |
| | 0900 | EBF | " " | 1.1 | — | Mod HC |
| | 0920 | EBF | B1 | 7.8 | — | Mod HC - done ex |
| | 0926 | EBF | A1-A3, B1 | <36.2 | — | Monitor better, no ex |
| | 1000 | EBF | A1 | +50 ppm | — | In ex area A1, near parking |

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|---------|---------|---------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 5/13/15 | 1010 | EBF | A1 | 125 | — | No ex, Ketchikan logging |
| | 1100 | EBF | Bl. on bench | 10.3 | — | No ex " " |
| | 1132 | EBF | C1/D1 | 17.8 | — | Ex C1/D1, Class 3 |
| | 1145 | EBF | Station 2 | 0.5 | — | Daily |
| | 1147 | EBF | Station 3 | 0.0 | — | ↓ |
| 5/14/15 | 0735 | EBF | Sidewalk A2 | 7.3 | — | Moving Class 3 |
| | 0740 | EBF | A2 ex | 22.1 | — | Moving Class 3 A1 |
| | 0745 | EBF | Station 2 | 1.1 | — | Daily; dig class 3 |
| | 0746 | EBF | Station 1 | 4.8 | — | Daily, " " |
| | 0747-50 | EBF | C1, Sidewalk | 32.6 | — | Strong HC odor |
| | 0752 | EBF | Station 5 | 0.0 | — | Daily |
| | 0810 | EBF | Station 1 | 23.7 | — | Ex Class 3 |
| | 0812 | EBF | Station 2 | 1.3 | — | Ex Class 3 |
| | 0830 | EBF | C1 | 117 | — | more Class 3 |
| | 0858 | EBF | A1 A1-A3, B1, B2, C1 | <37.2 | — | No soil work, ambient |
| | 1009 | EBF | A3 | 11.3 | — | Station side ex, no work |
| | 1021 | EBF | 70.2 A2 | 70.8 | — | Wind w/ HC order off structure by person |
| | 1025 | EBF | C1, Kennelly | 15.2 | — | Monitor for a few min, faint wood HC |
| | 1027 | EBF | D1 | 4.2 | — | Logging area |

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|---------|------|---------|-----------------------------------|----------------------|-------------------|----------------------------------|
| | | | | | Benzene (ppm) | |
| 5/15/15 | 0727 | EBF | A1 | 4.5 | — | Drilling the back of A2 |
| | 0753 | EBF | B1 | 106.6 | — | Ex grid C1 |
| | 0809 | EBF | C1 | 57.6 | — | excavate C1/D1 |
| | 0844 | EBF | P1/C1 | 82.6 | — | Ambient, ex (less -1 west) |
| | 0915 | EBF | EB/A1 D1 | 8.8 | — | Drill the-backs / <u>legging</u> |
| | 0935 | EBF | A1 | 9.1 | — | Drill the-backs |
| | 0949 | EBF | Station 2 | 2.2 | — | Daily |
| | 0950 | EBF | Station 1 | 0.1 | — | |
| | 0952 | EBF | Station 5 | 0.0 | — | |
| | 0954 | EBF | Station 4 | 0.0 | — | |
| | 0955 | EBF | Station 3 | 0.0 | — | |
| 5/18/15 | 0725 | EBF | C1, ex | 2.2 | — | Dum in ex, no activity |
| | 0735 | EBF | B5 | 5.1 | — | Soil Class 3 |
| | 0737 | EBF | Station 2 | 0.0 | — | Soil + Lead Class 3 |
| | 0739 | EBF | Station 1 | 0.0 | — | |
| | 0741 | EBF | Station 5 | 0.1 | — | |
| | 0754 | EBF | Load at excavator | 3.5 | — | Load Class 3 |
| | 0757 | EBF | C1 | 1.8 | — | Drill the-backs |
| | 0815 | EBF | B6 | 32.7 | — | Soil Class 3 |

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|---------|-----------|-----------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 5/10/15 | 0850 | EBF | D1 | 26.9 | — | Full tie-backs C1 |
| | 1000 | EBF | C3 | 10.7 | — | EB Bail (loss) |
| | 1120/1250 | EBF | E4 | 7.3 | — | ex in E4 |
| | 1420 | EBF | D2 | 36.2 | — | EX DS |
| | 1600 | EBF | F4 | 3.1 | — | ex just over |
| 5/20/15 | 0716 | EBF | A6 sidewalk downwind | 37.1 | — | Bailing susceptible |
| | 0720-085 | EBF/Aerom | In load out cab | 220 ppm <50 | — | Aerom reports readings 5.0 in 20s while loading Class 3 |
| | 0826 | EBF | A6 sidewalk | 13.5 | — | Bail Class 3, shiny HC |
| | 1045 | EBF | A10 sidewalk | 2.0 | — | Lead Class 3 |
| | 1319 | EBF | A2, ex | 129 | — | Bail Class 3 |
| | 1335-43 | EBF | A2 ex | 20-439 | 2.0 | Bail class 3 |
| | 1345 | EBF | A7 sidewalk | 186 | — | Bail Class 3, bright & sticky |
| | 1346 | EBF | Station 2 | 52.4 | — | shiny HC, dissipated as more away from ex |
| | 1347 | EBF | Station 1 | 1.3 | — | upwind bailing Class 3 |
| | 1350 | EBK | A2 sidewalk | 51.7 | — | Bailing Class 3 |
| | 1353 | EBK | Two stand across street | 4.7 | — | |
| 5/21/15 | 07:15 | EBF/EH | load out cab | 107 | — | in excavator, Kenny reports reading down respirator |
| | 0730 | EBF | B1 | 0.0 | — | upwind ex. |
| | 0738-51 | EBF | Station 2 | 10-150 | 0.0 | Full tie on sidewalk shiny HC over |

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|---------|------|-----------|-----------------------------------|----------------------|-------------------|---|
| | | | | | Benzene (ppm) | |
| 5/22/15 | 0755 | EBF | Station 1 | 36.2 | — | Strong wind towards NE strong HC odors |
| | 0756 | EBF | C1, sidewalk | 0.3 | — | Faint HC |
| | 0914 | EBF | C1, EX | 98.6 | — | EX Class 3 |
| | 0948 | EBF | B1 | 521 | — | EX C1, kicking lagging |
| | 1140 | EBF | A6 sidewalk | 17.1 | — | No EX or loading |
| | 1125 | EBF | E5 | 6.8 | — | Excavate E4 Class 3 |
| 5/26/15 | 0725 | EBF | A6 sidewalk | 3.3 | — | Load Class 3 |
| | 0740 | EBF | B1 | 59.7 | — | Excavate A3 |
| | 0820 | EBF | Station 2 | 13.3 | — | Excavate Class 3 |
| | 0821 | EBF | A2 sidewalk | 33.1 | — | |
| | 0822 | EBF | Station 1 | 10.0 | — | |
| | 0823 | EBF | C1 sidewalk | 0.3 | — | |
| | 0838 | EBF | B2 | 67.0 | — | Excavate A1 to ~25' away |
| | 0922 | EBF/Kenny | Load out excavator cab | 1.7 | — | Kenny monitors while loading area |
| | 0955 | EBF | B2 | 60.3 | — | strong HC, dig C1 |
| | 1030 | EBF | A1 | 58.7 | — | In lagging area |
| | 1135 | EBF | C2 | 1.8 | — | EX Kennedy Class 3 |
| | 1240 | EBF | B2 Class 3 C3 | 12.4 | — | Bail Class 3 |
| | 1438 | EBF | A3 | 17.7 | — | Knill herbatic |

AIR MONITORING LOG
 Whittaker Property
 Fautleroy Way SW and SW Alaska Street
 Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|---------|---------|-----------------------------------|----------------------|-------------------|-------------------------|
| | | | | | Benzene (ppm) | |
| 5/26/15 | 1510 | EBF | A6 sidewalk/s 2 | 5.9 | — | Bail Class 3 up |
| | 1511 | EBF | Station 1 | 1.8 | — | Faint HC, h=1 Class 3 |
| 5/27/15 | 0737-39 | EBF | A7 sidewalk | 61-6.6 | — | Load Class 3 Kennel |
| | 0740 | EBF | Station 2 | 4.1 | — | Load Class 3 |
| | 0741 | EBF | Station 1 | 0.2 | — | Load Class 3 |
| | 0925 | EBF | C2 | 80.1 | — | Ex C3 |
| | 1200 | EBF | D1 | 68.7 | — | Ex D1/D2 |
| | 1310 | EBF | D1 | 3.4 | — | Ex D1/D2 |
| | 1505 | EBF | E4/E5 | 11.7 | — | Ex L.S |
| | 1540 | EBF | " | 7.1 | — | " " |
| 5/28/15 | 0705 | EBF | A6 sidewalk | 2.8 | — | Load Class 3 |
| | 0714 | EBF | A2 | 258 | — | Ex B1, strong RC |
| | 0749-55 | EBF | A3 | 29-238 | 0.0 | Ex B1/B1 |
| | 0823 | EBF | Station 2 | 34.2 | — | Load Class 3 |
| | 0824 | EBF | Station 1 | 1.4 | — | " " |
| | 0930 | EBF | B1 | 8.9 | — | Ex B3 Class 3 |
| | 1130 | EBF | B2 | 2.2 | — | Bottom Ex, Load Class 3 |
| | 1340 | EBF | E2 | 0.2 | — | Ex E2/E3 in E3 |
| 5/29/15 | 0846 | EBF | Station 2 | 0.0 | — | Dark |

AIR MONITORING LOG
Whittaker Property
Fautleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|---------------------------|
| | | | | | Benzene (ppm) | |
| 5/29/15 | 0841 | EBF | Station 1 | 0.2 | — | Doubt |
| | 0842 | EBF | Station 5 | 0.0 | — | |
| | 0845 | EBF | Station 4 | 0.0 | — | |
| | 0847 | EBF | Station 3 | 0.2 | — | |
| | 0920 | EBF | A2 | 15.5 | — | EX A1 string HC |
| | 0950 | EBF | Station 2 | 1.2 | — | EX A2 location |
| | 0952 | EBF | Station 1 | 22.3 | — | initial HC value |
| | 1218 | EBF | A2 | 40.2 | — | EX to 242 |
| | 1300 | EBF | A2 | 19.7 | — | lagging |
| | 1412 | EBF | A1 | 10.1 | — | Place soil against boards |
| 6/1/15 | 0734 | OSF | A5 | 4.2 | — | Bail Class 2 |
| | 0800 | OSF | B2 | 0.0 | — | Bail Class 3 |
| | 0910 | OSF | A2 | 1.3 | — | EX A3 |
| | 1050 | EBF | A3 | 24 | — | consolidate Class 3 |
| | 1212 | EBF | A7 sidewalk | 0.0 | — | move steel plates |
| | 1214 | EBF | Station 2 | 0.0 | — | Doubt |
| | 1215 | EBF | Station 1 | 0.0 | — | ↓ |
| 6/1/15 | 0123 | EBF | Station 1 | 0.0 | — | Doubt |
| | 0301 | EBF | Station 1 | 0.0 | — | ↓ |

AIR MONITORING LOG
Whittaker Property
Fautleroy Way SW and SW Alaska Street
Seattle, Washington

| Date | Time | Sampler | Location/Grid Location (eg A2) | PID Reading (rru) | Colorimetric Tube | Comments/Notes |
|---------|------|---------|-----------------------------------|----------------------|-------------------|---------------------|
| | | | | | Benzene (ppm) | |
| 01/2/15 | 0733 | EBF | Station 5 | 0.0 | — | Dark |
| | 0734 | EBF | Station 4 | 0.0 | — | ↓ |
| | 0827 | EBF | C5 | 0.0 | — | Sampling, no ex |
| | 1315 | EBF | C1 | 0.1 | — | Scrape bottom |
| 01/3/15 | 0810 | EBF | B1 | 0.2 | — | " " |
| | 1125 | EBF | A3 | 0.4 | — | Ex. A3 lagging |
| | 1217 | EBF | A3 | 0.0 | — | Ex sump |
| 01/4/15 | 0715 | EBF | A7 sidewalk | 0.0 | — | Local class 3 |
| | 0750 | EBF | Station 2 | 0.0 | — | " " |
| | 0751 | EBF | Station 1 | 0.0 | — | " " |
| | 0935 | EBF | A7 on plates | 0.0 | — | All class 3 removed |
| | | | | | | |
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APPENDIX H
LABORATORY ANALYTICAL REPORTS

Excavation Laboratory Analytical Results

Friedman & Bruya, Inc. #504059

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 7, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 2, 2015 from the SOU_0914-001-12_20150402, F&BI 504059 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0407R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 2, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150402, F&BI 504059 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504059 -01

SoundEarth Strategies
S-BO1-A1-03

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504059

Date Extracted: 04/03/15

Date Analyzed: 04/03/15

**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 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-BO1-A1-03 504059-01 | <0.02 | <0.02 | 0.11 | 0.071 | 28 | 105 |
| Method Blank 05-0664 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504059

Date Extracted: 04/03/15

Date Analyzed: 04/03/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-BO1-A1-03 504059-01 | <50 | <250 | 101 |
| Method Blank 05-687 MB | <50 | <250 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504059

**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: 504050-33 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|-----------------|-------------|----------------------|---------------------|
| Benzene | mg/kg (ppm) | 0.5 | 95 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 96 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 93 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504059

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504059-01 (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 | <50 | 106 | 105 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

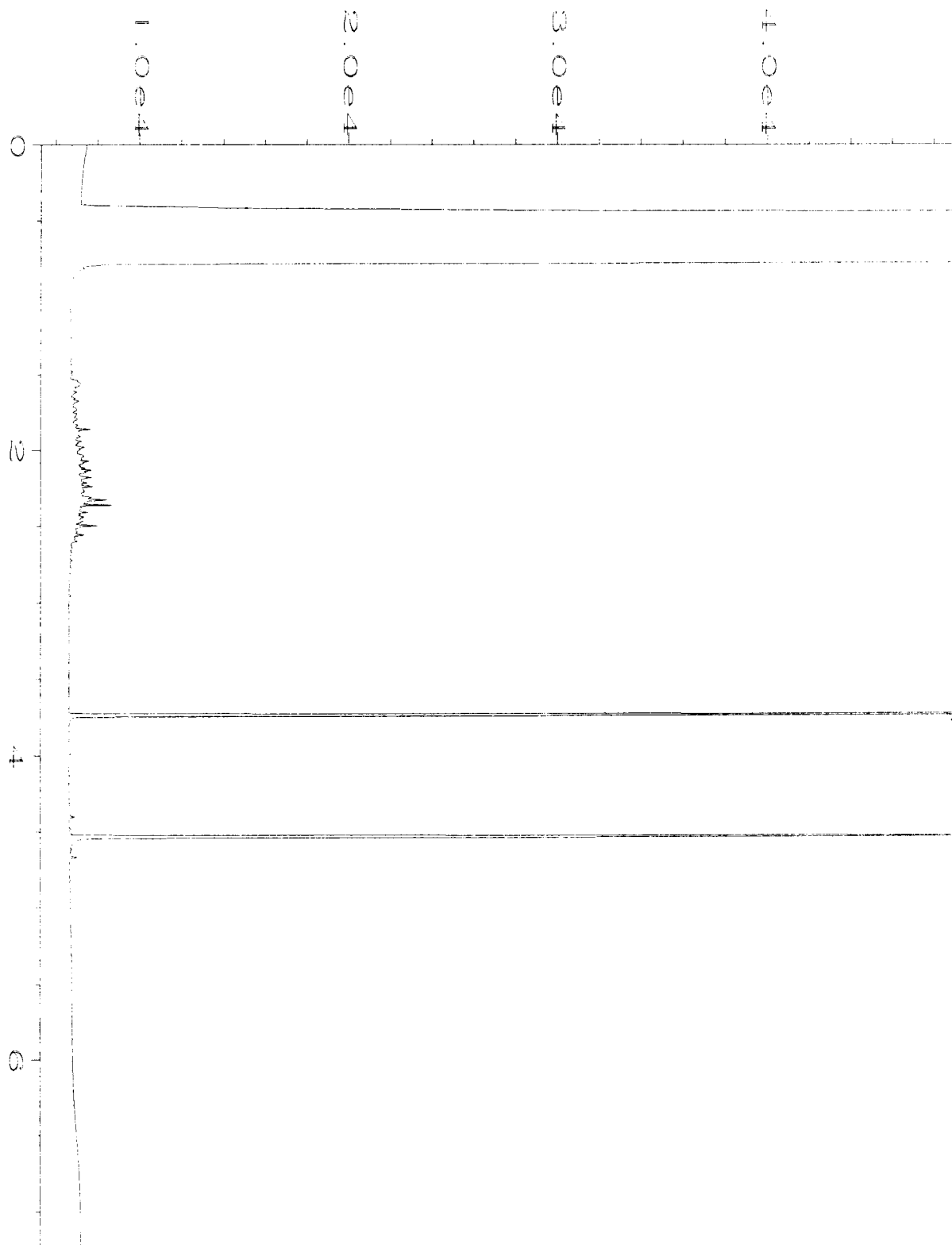
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

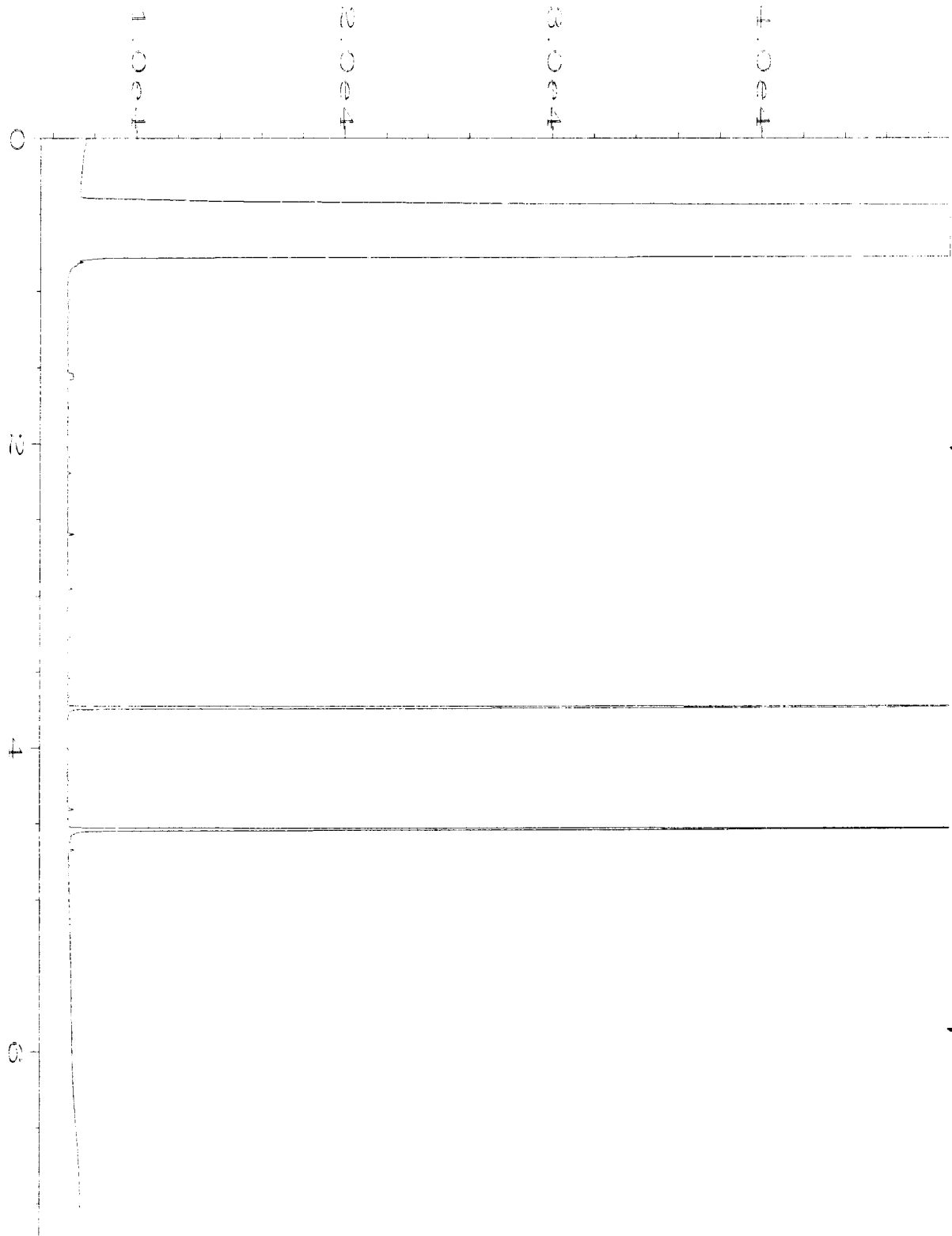
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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.

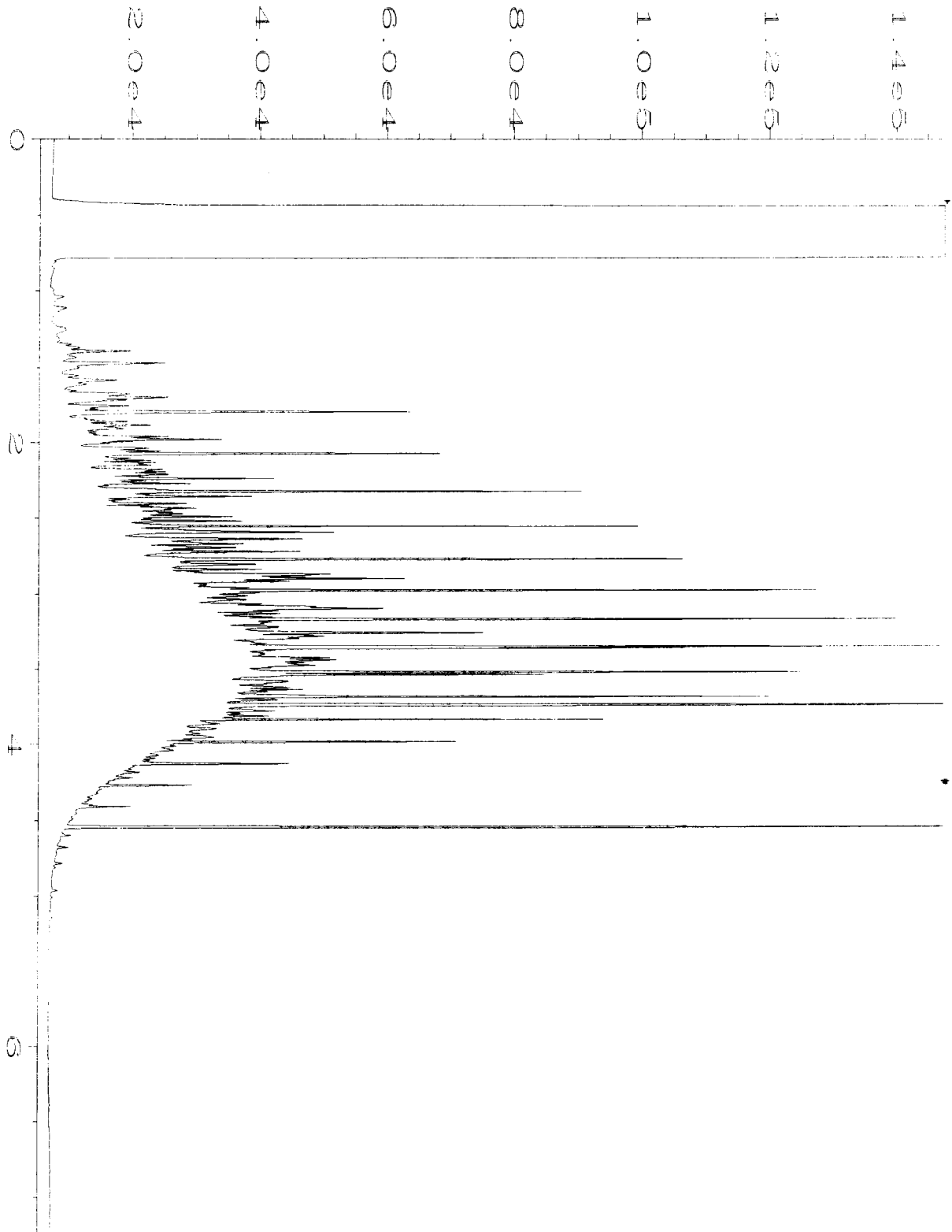


| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-03-15\010F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 10 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504059-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 03 Apr 15 09:49 AM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 12:49 PM | | |



Data File Name : C:\HPCHEM\1\DATA\04-03-15\006F0301.D
 Operator : mwdl
 Instrument : GC1
 Sample Name : 05-687 mb
 Run Time Bar Code:
 Acquired on : 03 Apr 15 09:07 AM
 Report Created on: 03 Apr 15 12:49 PM
 Page Number : 1
 Vial Number : 6
 Injection Number : 1
 Sequence Line : 3
 Instrument Method: DX.MTH
 Analysis Method : DX.MTH

1.4e5
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Data File Name : C:\HPCHEM\1\DATA\04-03-15\003F0201.D
Operator : mwdl
Instrument : GC1
Sample Name : 500 Dx 44-94C
Run Time Bar Code:
Acquired on : 03 Apr 15 08:55 AM
Report Created on: 03 Apr 15 12:49 PM
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: DX.MTH
Analysis Method : DX.MTH

(504059)

SAMPLE CHAIN OF CUSTODY

ME 00 04-02-15

Page # 1 of 1 Col 1/vel

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. 0914-001-12 PO # _____

REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hr
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | | |
|-------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | | |
| S-B01 A1-C3 | A1 | 3 | 01A-F | 4/2/15 | 1350 | Soil | 5 | X | X | X | | | | | | | | |
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Sample received at 4 °C

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 |
|-------------------------------------|-------------------|------------|---------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Liz Forbes</u> | <u>SES</u> | <u>4/2/15</u> | <u>1530</u> |
| Received by: <u>[Signature]</u> | <u>David</u> | <u>FBZ</u> | <u>"</u> | <u>1550</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504219

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 16, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 13, 2015 from the SOU_0914_20150413, F&BI 504219 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0416R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 13, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914_20150413, F&BI 504219 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504219 -01

SoundEarth Strategies
S-B01-A2-267

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/16/15
Date Received: 04/13/15
Project: SOU_0914_20150413, F&BI 504219
Date Extracted: 04/13/15
Date Analyzed: 04/13/15 and 04/14/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-A2-267 504219-01 1/5 | <0.02 j | <0.1 | 7.6 | 6.0 | 1,600 | 118 |
| Method Blank 05-0748 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/16/15
Date Received: 04/13/15
Project: SOU_0914_20150413, F&BI 504219
Date Extracted: 04/14/15
Date Analyzed: 04/14/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-B01-A2-267 504219-01 | 430 x | <250 | 94 |
| Method Blank 05-741 MB2 | <50 | <250 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/16/15

Date Received: 04/13/15

Project: SOU_0914_20150413, F&BI 504219

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 504208-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria | RPD (Limit 20) |
|--------------|-----------------|-------------|----------------------|---------------------|----------------|
| Benzene | mg/kg (ppm) | 0.5 | 80 | 69-120 | |
| Toluene | mg/kg (ppm) | 0.5 | 81 | 70-117 | |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 79 | 65-123 | |
| Xylenes | mg/kg (ppm) | 1.5 | 79 | 66-120 | |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/16/15

Date Received: 04/13/15

Project: SOU_0914_20150413, F&BI 504219

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504026-05 (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 | <50 | 115 | 114 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 124 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

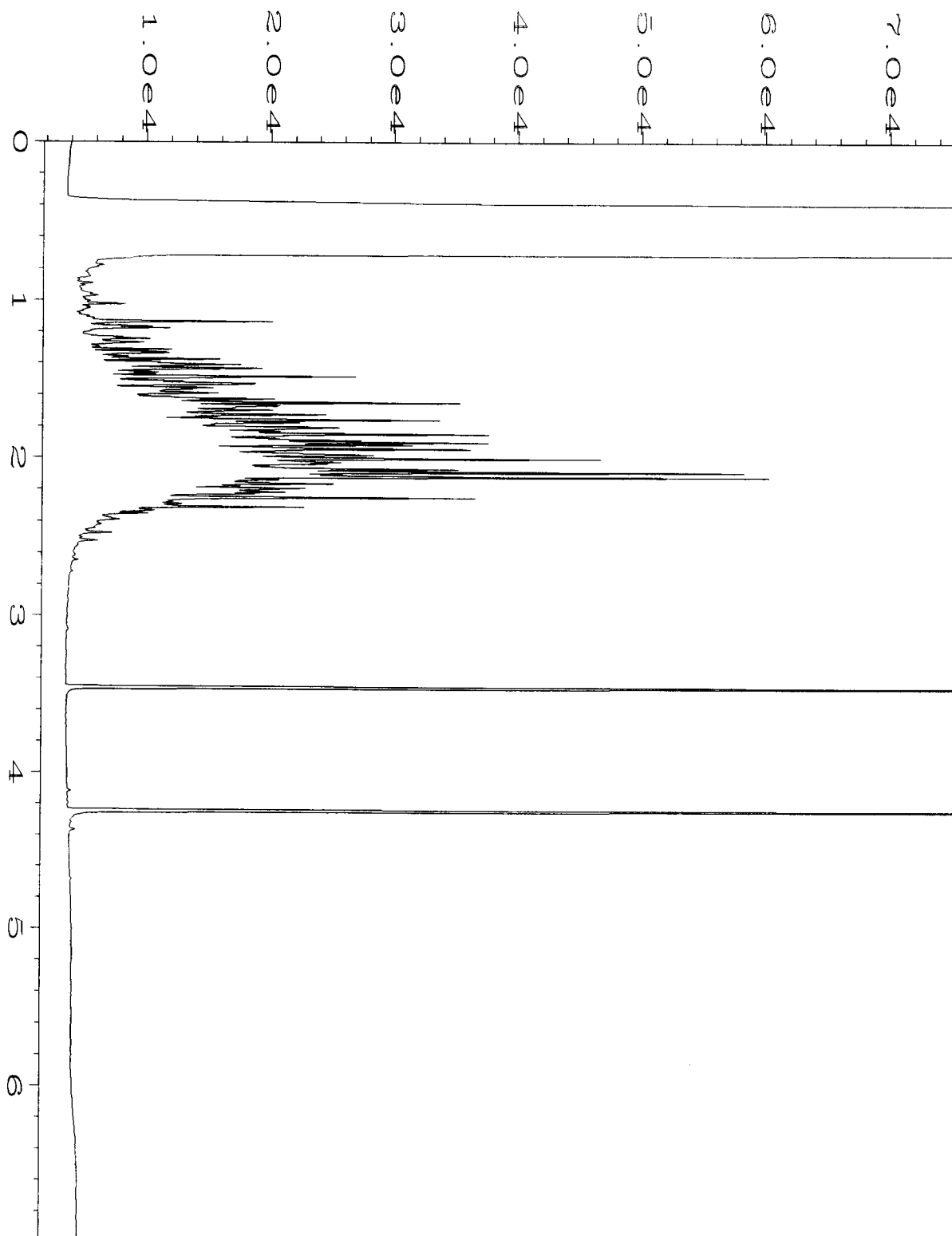
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

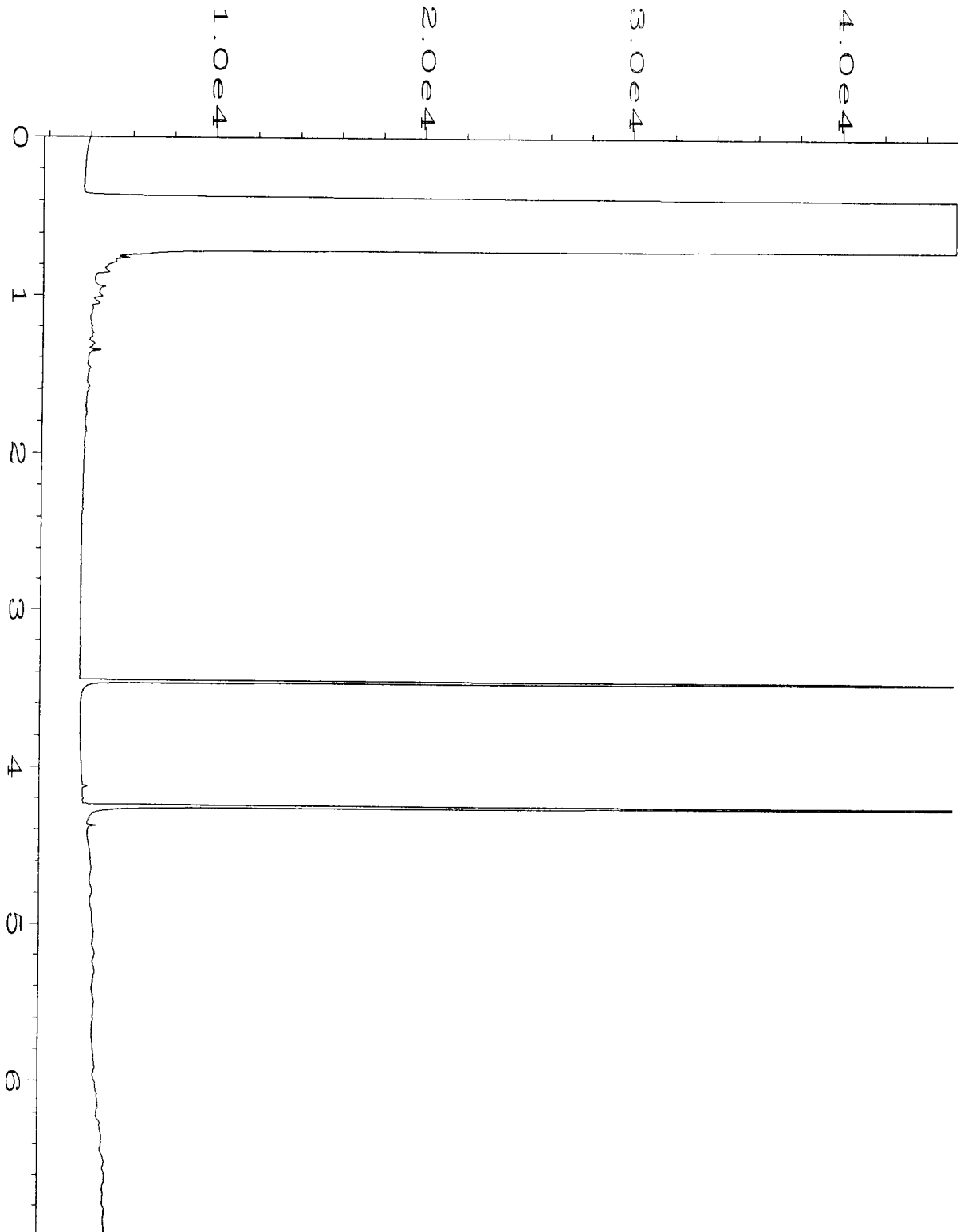
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

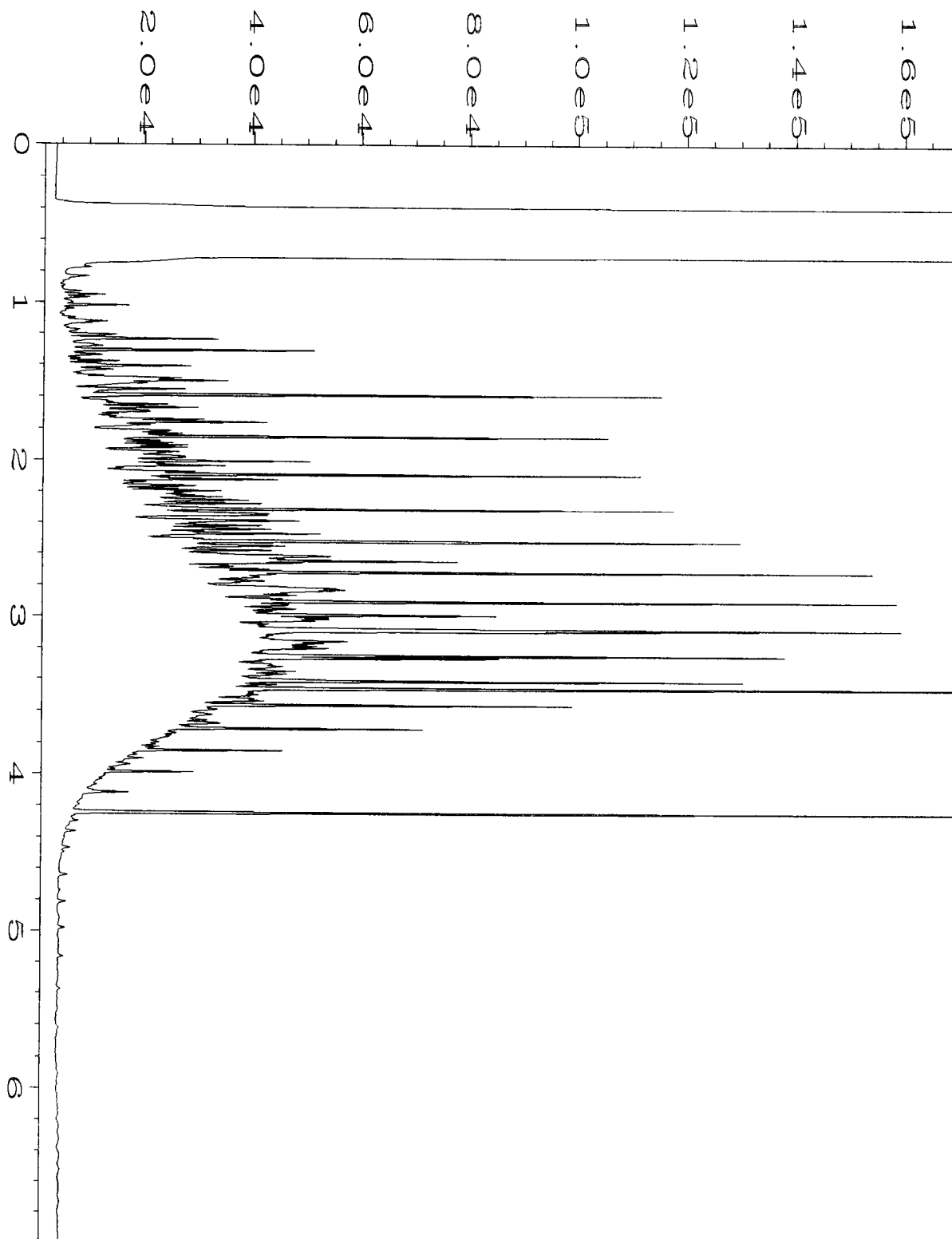
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-14-15\007F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 7 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504219-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 Apr 15 09:40 AM | Analysis Method | : DX.MTH |
| Report Created on: | 15 Apr 15 04:05 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-14-15\006F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 6 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-741 mb2 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 Apr 15 09:32 AM | Analysis Method | : DX.MTH |
| Report Created on: | 15 Apr 15 04:05 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-14-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 Apr 15 09:07 AM | Analysis Method | : DX.MTH |
| Report Created on: | 15 Apr 15 04:05 PM | | |

504219

SAMPLE CHA OF CUSTODY

ME 04-13-15

CO1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *Jonathan Loeffler*

PROJECT NAME/NO. SKS Shell 0914 PO #

REMARKS

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH 24 hr TAT
Rush charges authorized by:
Suz Stumpf

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|---|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-B01-A2-267 | B01-A2 | 267' | 01A-E | 4/13/15 | 1345 | SOIL | 5 | X | X | X | | | | | | | |
| <i>[Handwritten signature and date 4/13/15]</i> | | | | | | | | | | | | | | | | | |
| Samples received at 5 °C | | | | | | | | | | | | | | | | | |

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 |
|------------------|--------------------------|-------------------|--|------------|---------|-------|
| Relinquished by: | <i>Jonathan Loeffler</i> | Jonathan Loeffler | | SoundEarth | 4/13/15 | 15:15 |
| Received by: | <i>[Signature]</i> | Do W | | FORBES | 4 | 15:15 |
| Relinquished by: | | | | | | |
| Received by: | | | | | | |

Friedman & Bruya, Inc. #504270

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 1, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 15, 2015 from the SOU_0914-001-12_20150415, F&BI 504270 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0501R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 15, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150415, F&BI 504270 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504270 -01 | S-B02-A1-266 |
| 504270 -02 | S-ESW01-A1-265 |
| 504270 -03 | S-NSW01-A1-265 |
| 504270 -04 | S-NSW01-B1-265 |
| 504270 -05 | S-ESW01-A4-265 |
| 504270 -06 | S-SSW01-A4-265 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/15/15

Project: SOU_0914-001-12_20150415, F&BI 504270

Date Extracted: 04/28/15

Date Analyzed: 04/28/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-ESW01-A1-265 504270-02 | <0.02 | 0.031 | <0.02 | <0.06 | 3.6 | 93 |
| S-SSW01-A4-265 504270-06 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| Method Blank 05-0861 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/15/15

Project: SOU_0914-001-12_20150415, F&BI 504270

Date Extracted: 04/28/15

Date Analyzed: 04/28/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-ESW01-A1-265 504270-02 | <50 | <250 | 96 |
| S-SSW01-A4-265 504270-06 | <50 | <250 | 96 |
| Method Blank 05-860 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/15/15

Project: SOU_0914-001-12_20150415, F&BI 504270

**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: 504270-06 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/15/15

Project: SOU_0914-001-12_20150415, F&BI 504270

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504495-01 (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 | <50 | 93 | 90 | 64-133 | 3 |

Laboratory Code: Laboratory Control Sample

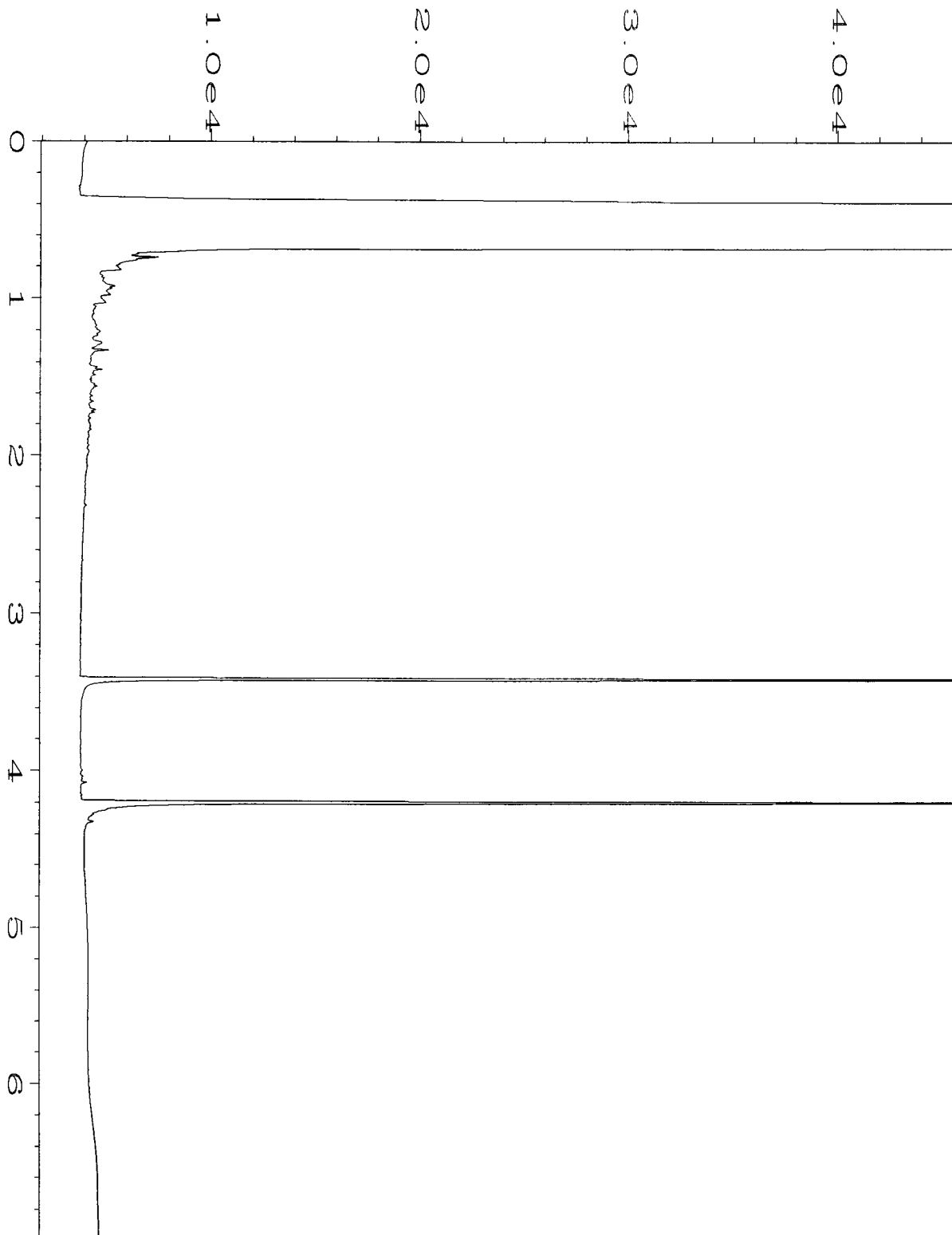
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 91 | 58-147 |

FRIEDMAN & BRUYA, INC.

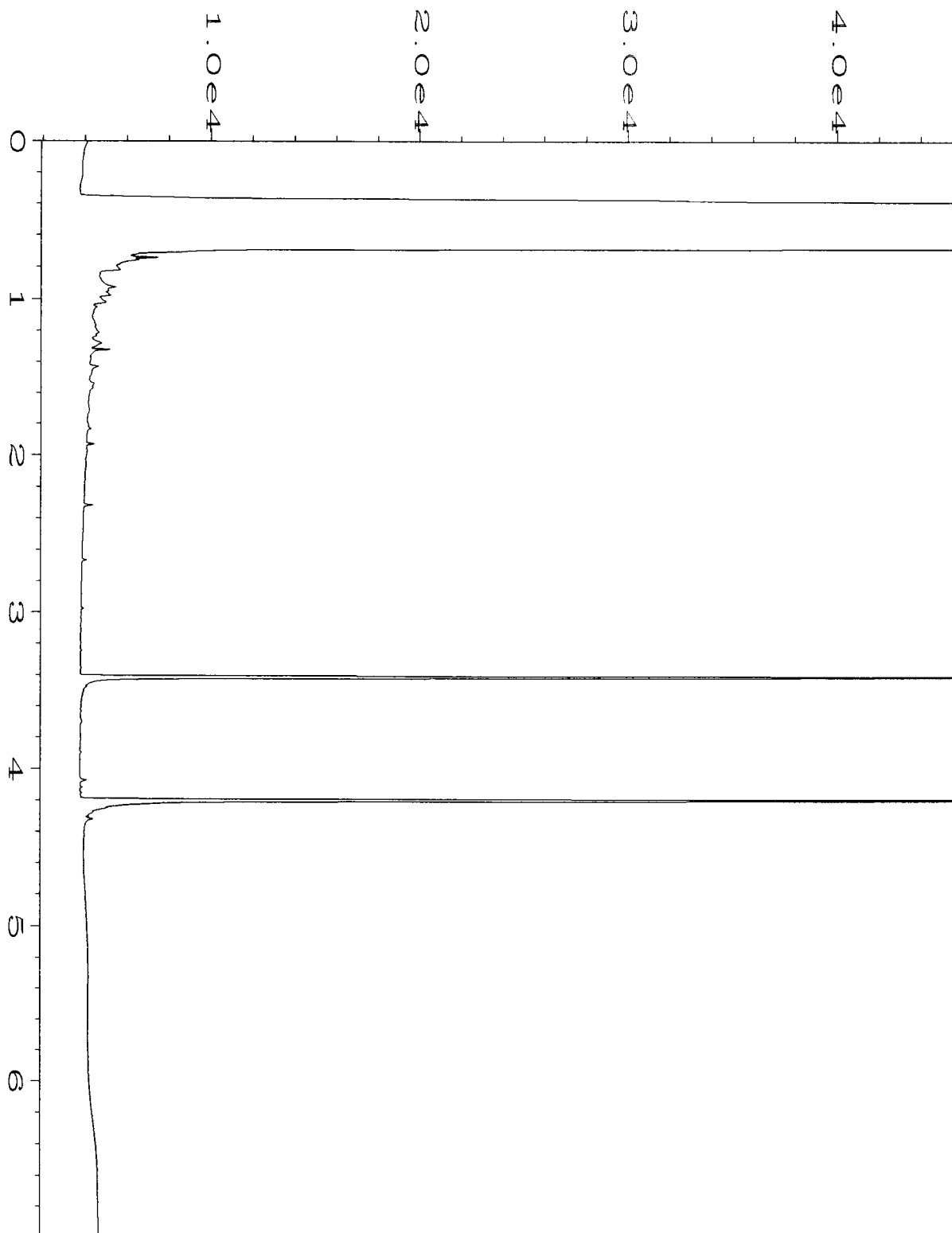
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

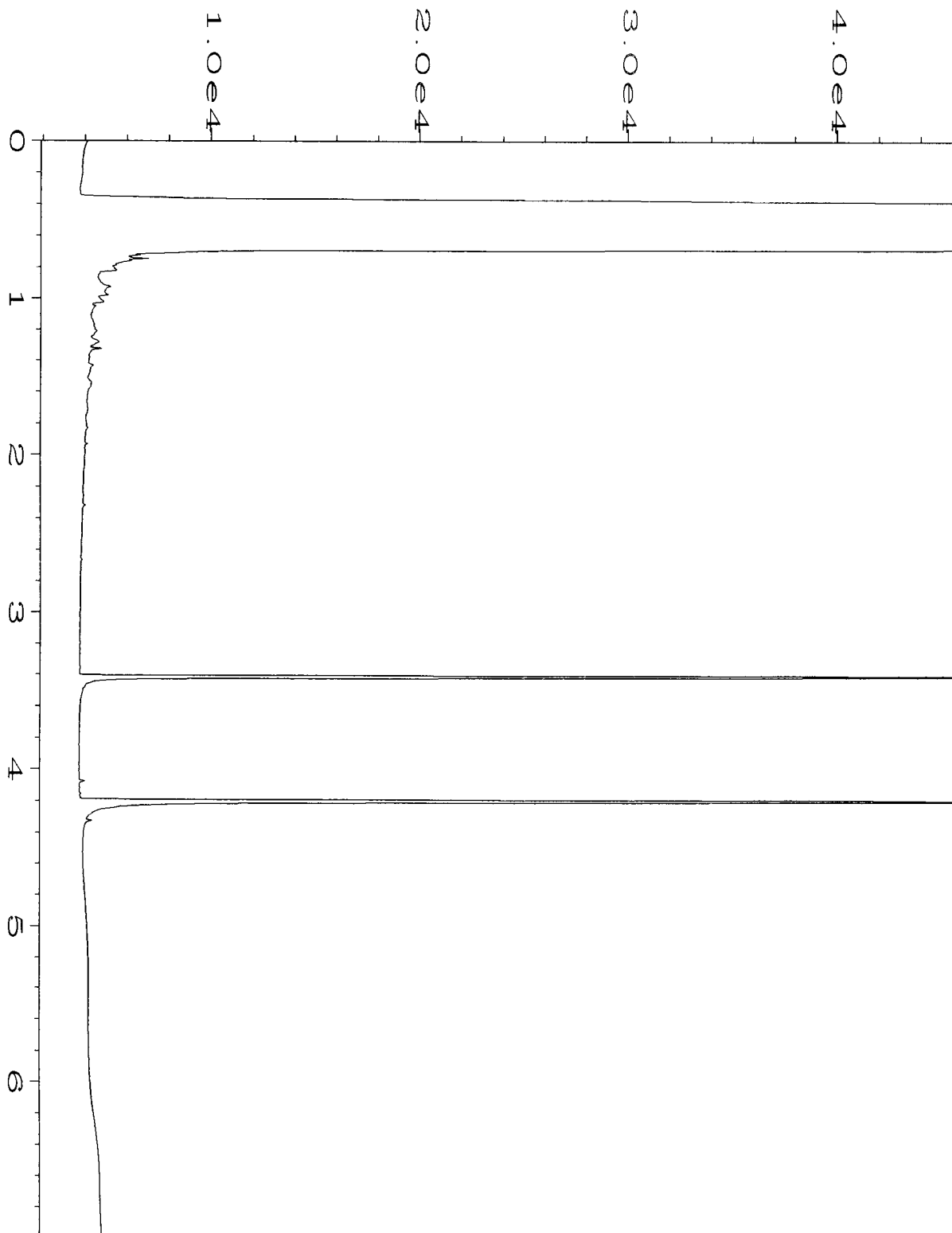
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



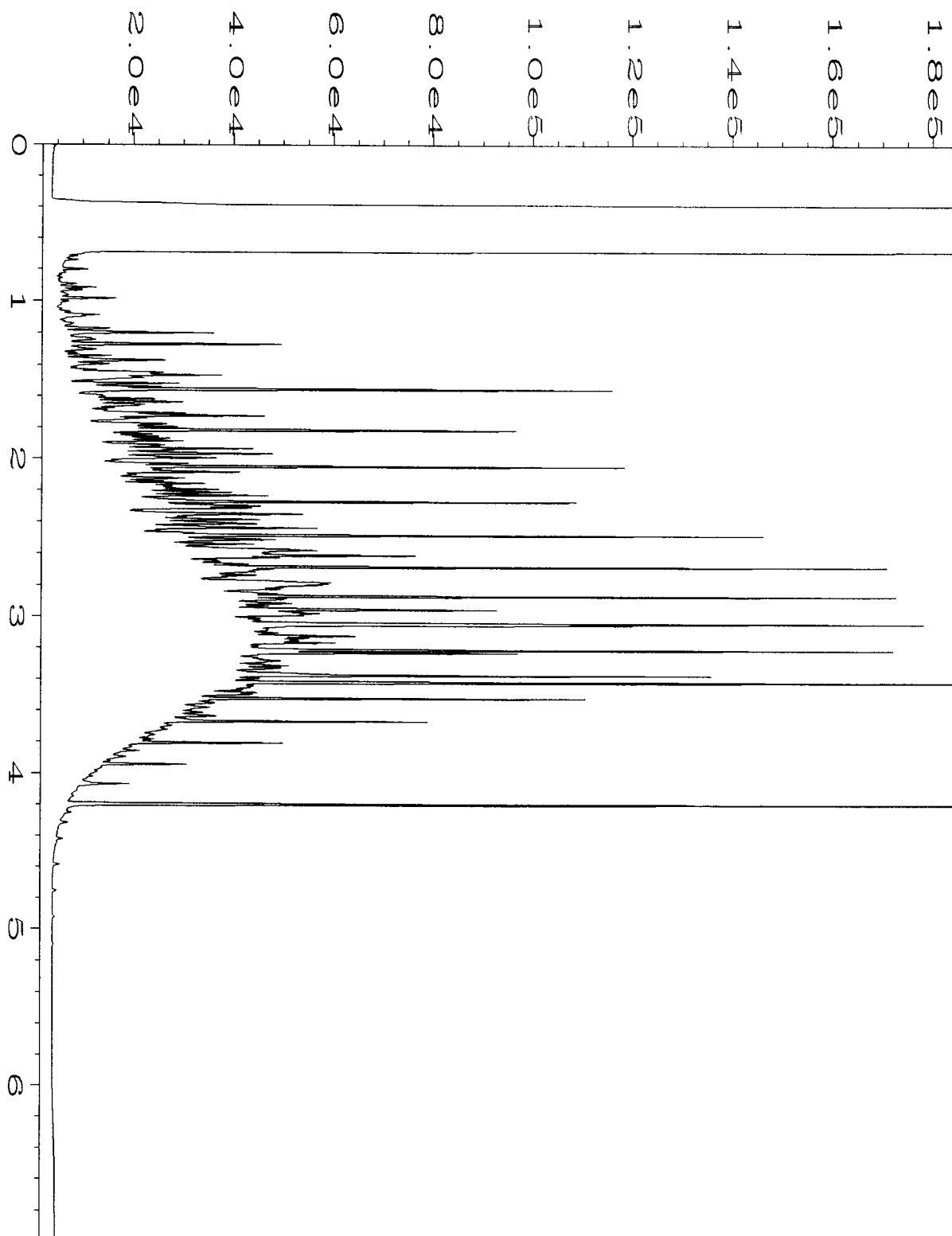
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\027F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 27 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504270-02 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 03:58 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\028F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 28 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504270-06 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 04:09 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:52 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\011F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 11 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-860 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 10:52 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 09:03 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:50 AM | | |

504270

SAMPLE CHA OF CUSTODY

ME 04/15/15 405 1/02
Page # 1 of 1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cvr
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue E. Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. SKS SHELL PO # 0914-001-12

REMARKS * Freeze and HOLD ONE 4oz jar for future forensic analysis. cont frozen
4/27/15 - Release S-SW01-A4-265
S-ESW01-A1-265

TURNAROUND TIME
Standard (2 Weeks)
~~2RUSH 24H TAT~~
Rush charges authorized by:
Suzi Stumpf

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

4/21/15
4/27/15

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|------|------------------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82870SIM | VOCs by 8280C | Metals by 200.8 | PCBs by Method 8082 | | HOLD | |
| S-802-A1-266 | BTM A1 | 266' | 01A | 4/15/15 | 0855 | SOIL | 6 | * | * | * | | | | | | | * |
| S-ESW01-A1-265 | ESW A1 | 265' | 02T | | 0935 | | 6 | X | X | X | | | | | | | * STD TAT RELEASE HOLD |
| S-NSW01-A1-265 | NSW A1 | 265' | 03 | | 0940 | | 6 | | | | | | | | | | * |
| S-NSW01-B1-265 | NSW B1 | 265' | 04 | | 0945 | | 6 | | | | | | | | | | * |
| S-ESW01-A4-265 | ESW A4 | 265' | 05 | | 0951 | | 6 | | | | | | | | | | * |
| S-SSW01-A4-265 | SSW A4 | 265' | 06 | | 0955 | | 6 | X | X | X | | | | | | | * STD TAT RELEASE HOLD |
| | | | | | | | | [Signature] | | 4/15/15 | | | | | | | |

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS\COC\COC.DOC

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|------------------|---------------------|---------|------|
| Relinquished by: <u>[Signature]</u> | JONATHAN COFFROG | SOUNDEARTH | 4/15/15 | 1702 |
| Received by: <u>[Signature]</u> | HONG NGUYEN | FBI | ✓ | ✓ |
| Relinquished by: | | | | |
| Received by: | | Samples received at | Y | C |

Friedman & Bruya, Inc. #504311

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 1, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 17, 2015 from the SOU_0914-001-12_20150417, F&BI 504311 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0501R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 17, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150417, F&BI 504311 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504311 -01

SoundEarth Strategies
S-B01-A3-265

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504311

Date Extracted: 04/28/15

Date Analyzed: 04/28/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-A3-265 504311-01 | <0.02 | 0.37 | 0.44 | 1.1 | 83 | 106 |
| Method Blank 05-0861 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504311

Date Extracted: 04/28/15

Date Analyzed: 04/28/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-B01-A3-265 504311-01 | <50 | <250 | 95 |
| Method Blank 05-860 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504311

**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: 504270-06 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504311

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504495-01 (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 | <50 | 93 | 90 | 64-133 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 91 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

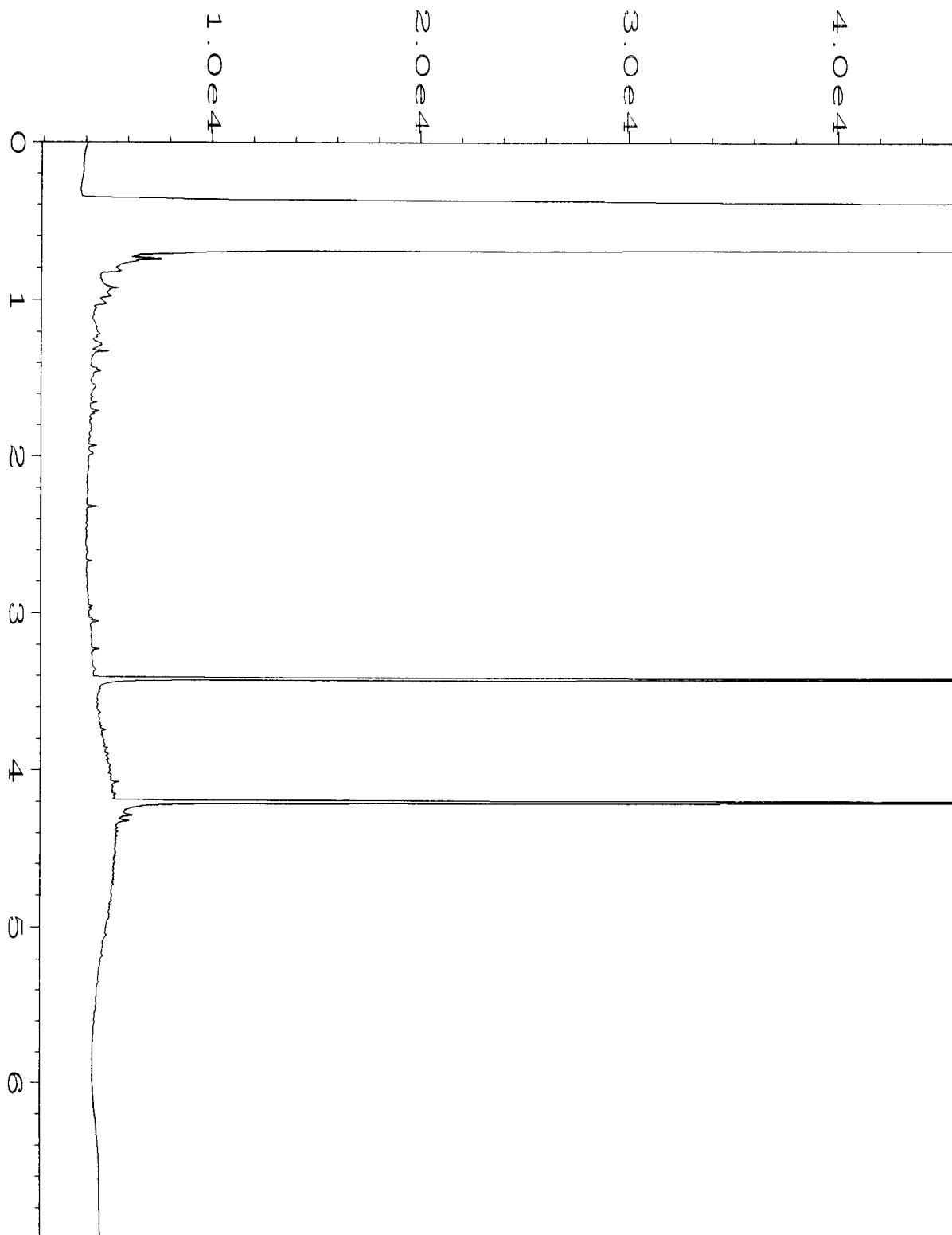
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

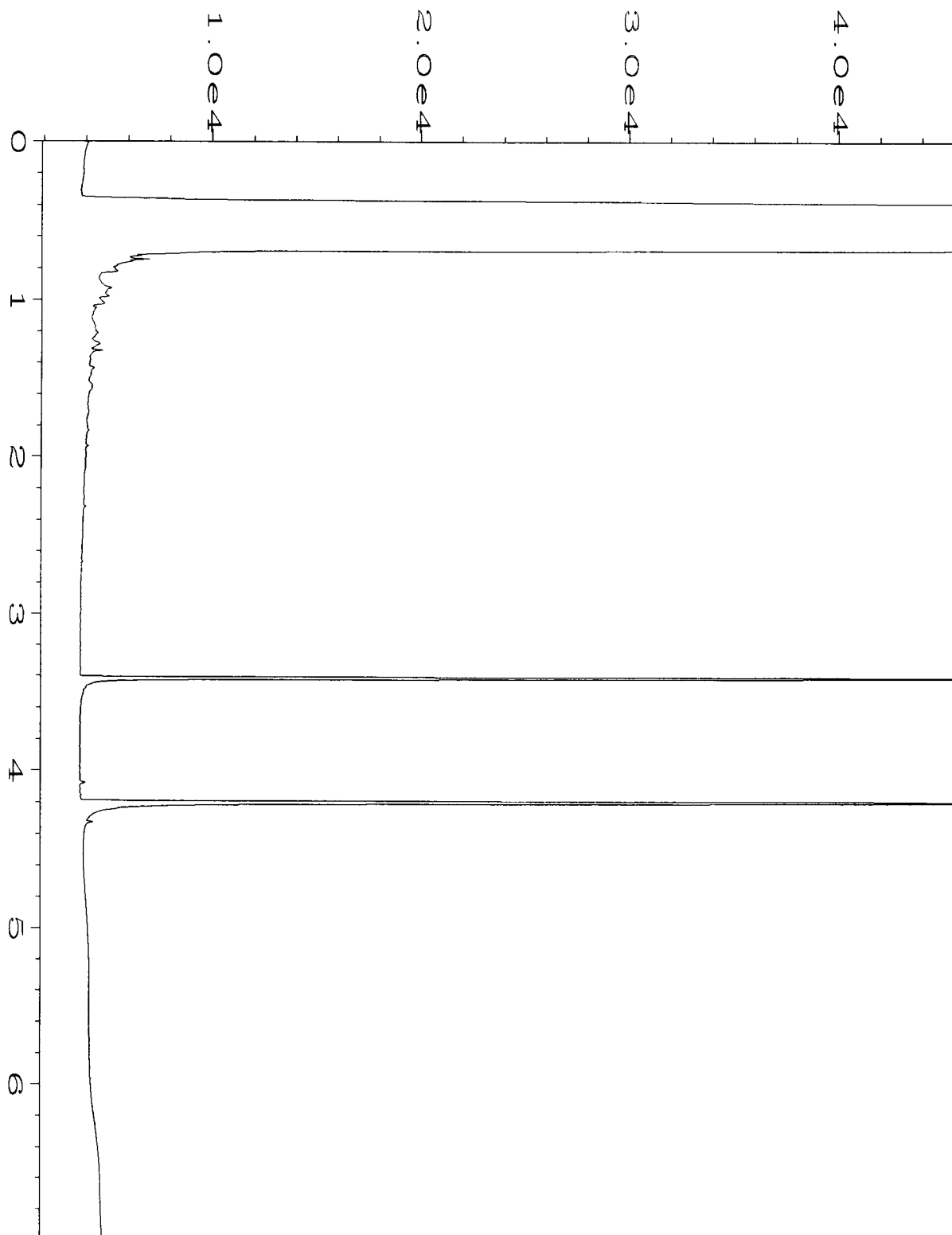
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

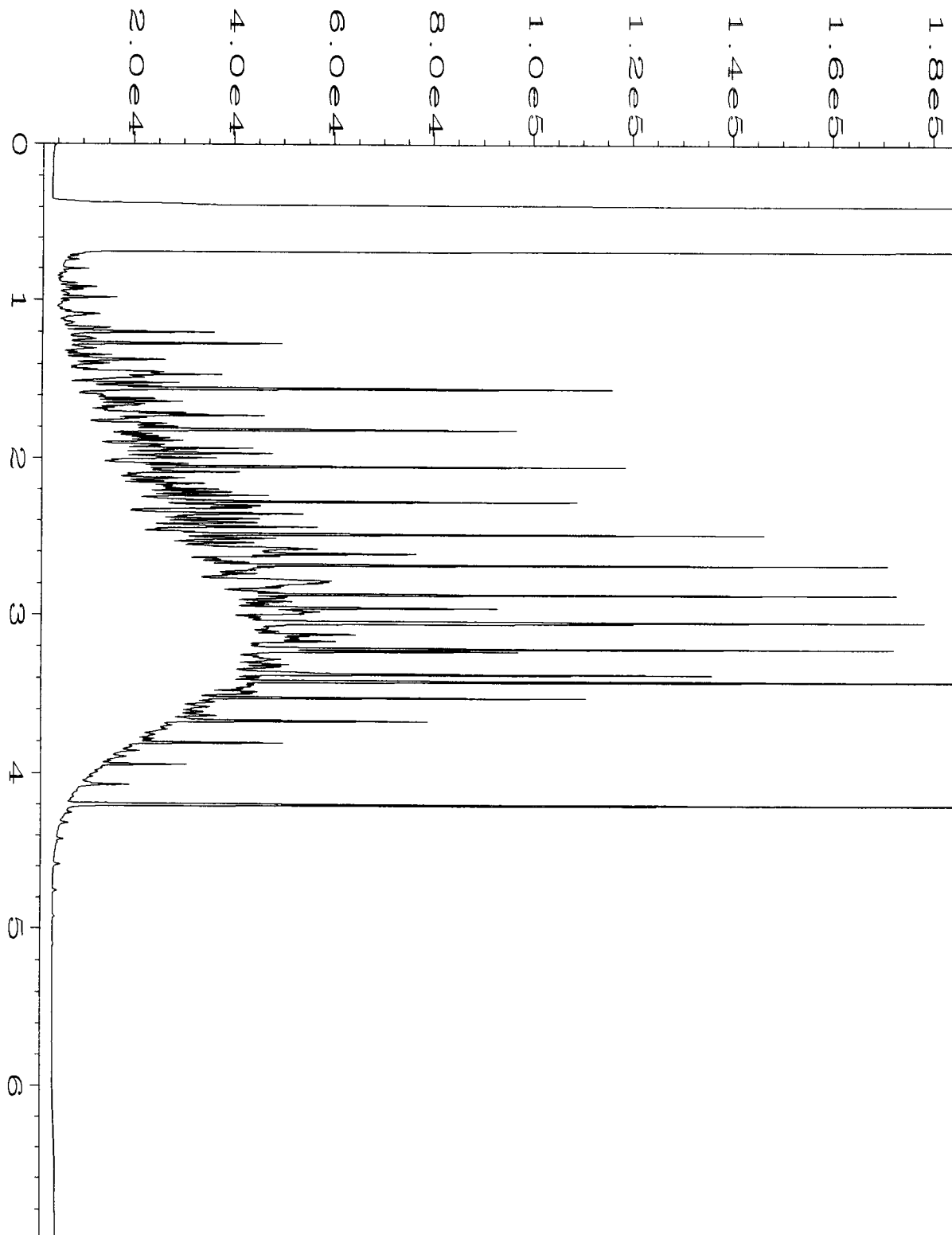
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\029F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 29 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504311-01 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 04:20 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:52 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\011F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 11 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-860 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 10:52 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 09:03 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:50 AM | | |

504311

SAMPLE CHA OF CUSTODY ME 4/17/15 DOI/VS1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. SKS Shell PO # 0914-001-12

REMARKS 1st Run S-B01-A3-265
on HOLD - Keep 4oz forensics sample
on HOLD

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|----------------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|-------------------|---------------|-----------------|---------------------|-------|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIDM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| 4/27/15 S-B01-A3-265 | A3 | 265' | 01 | 4/17/15 | 0900 | SOIL | 6 | X | X | X | | | | | | | * SID TAT Release Hold <i>[Signature]</i> |
| <i>[Signature]</i> 4/17/15 | | | | | | | | | | | | | | | | | |

Sample received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 288-5044

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--------------------|-------------------|-------------|---------|-------|
| <i>[Signature]</i> | JONATHAN LOEFFLER | SOUND EARTH | 4/17/15 | |
| <i>[Signature]</i> | PAT MAHONY | Sound Earth | 4/17/15 | 11:55 |
| <i>[Signature]</i> | HONG NGUYEN | FBI | 4/17/15 | / |

Friedman & Bruya, Inc. #504332

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 1, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 17, 2015 from the SOU_0914-007_20150417, F&BI 504332 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0501R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 17, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-007_20150417, F&BI 504332 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504332 -01 | S-B01-A1-261 |
| 504332 -02 | S-B01-A2-261 |
| 504332 -03 | S-B01-B1-261 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15
 Date Received: 04/17/15
 Project: SOU_0914-007_20150417, F&BI 504332
 Date Extracted: 04/28/15
 Date Analyzed: 04/28/15

**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) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-B01-A1-261 504332-01 | <0.02 | 0.064 | <0.02 | 0.073 | 27 | 92 |
| S-B01-A2-261 504332-02 | <0.02 | <0.02 | <0.02 | <0.06 | 15 | 91 |
| S-B01-B1-261 504332-03 1/5 | <0.02 j | <0.1 | 14 | 15 | 1,700 | 134 |
| Method Blank 05-0861 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15
Date Received: 04/17/15
Project: SOU_0914-007_20150417, F&BI 504332
Date Extracted: 04/28/15
Date Analyzed: 04/28/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-B01-A1-261 504332-01 | <50 | <250 | 101 |
| S-B01-A2-261 504332-02 | <50 | <250 | 96 |
| S-B01-B1-261 504332-03 | 85 x | <250 | 95 |
| Method Blank 05-860 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-007_20150417, F&BI 504332

**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: 504270-06 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/15

Date Received: 04/17/15

Project: SOU_0914-007_20150417, F&BI 504332

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504495-01 (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 | <50 | 93 | 90 | 64-133 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 91 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

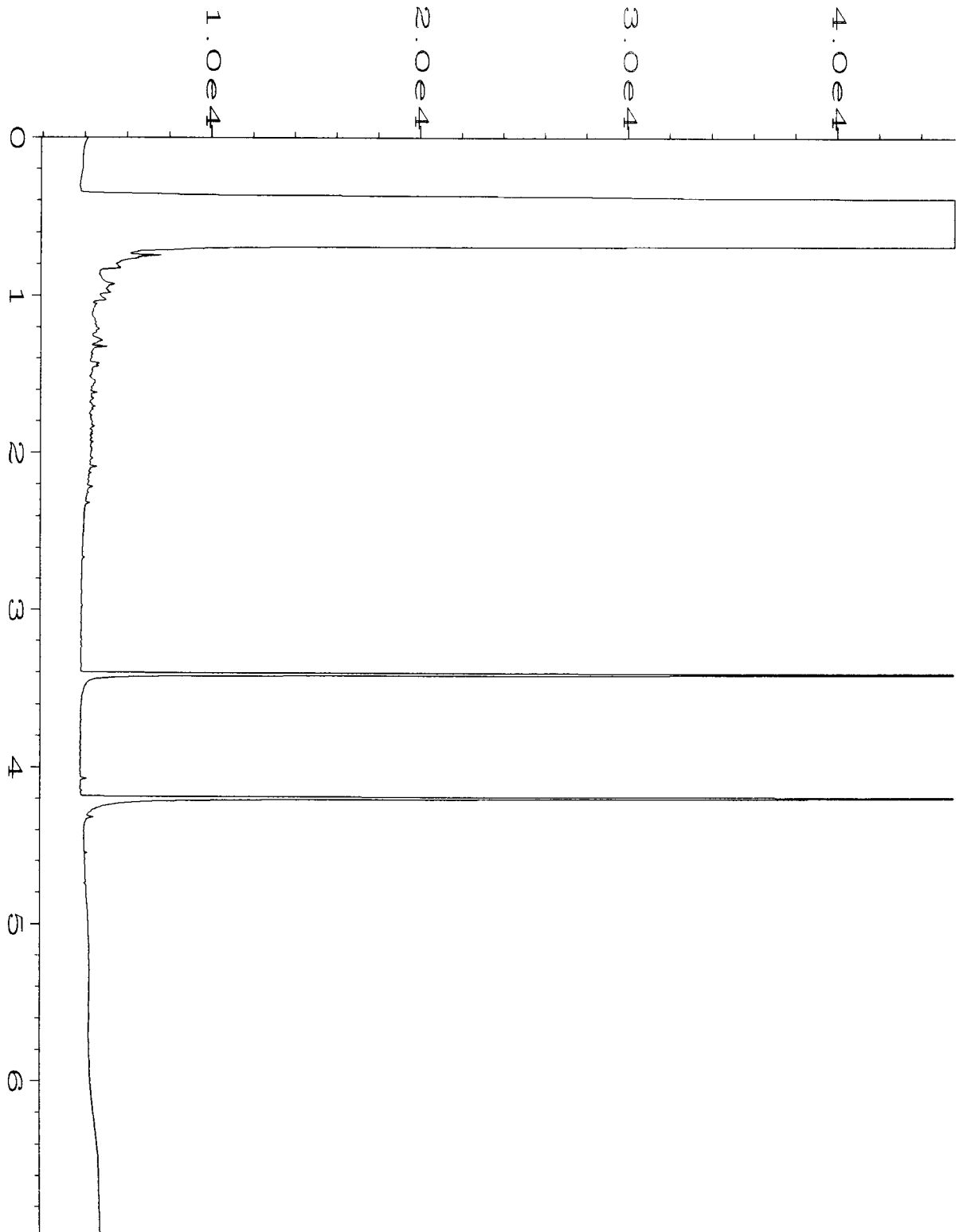
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

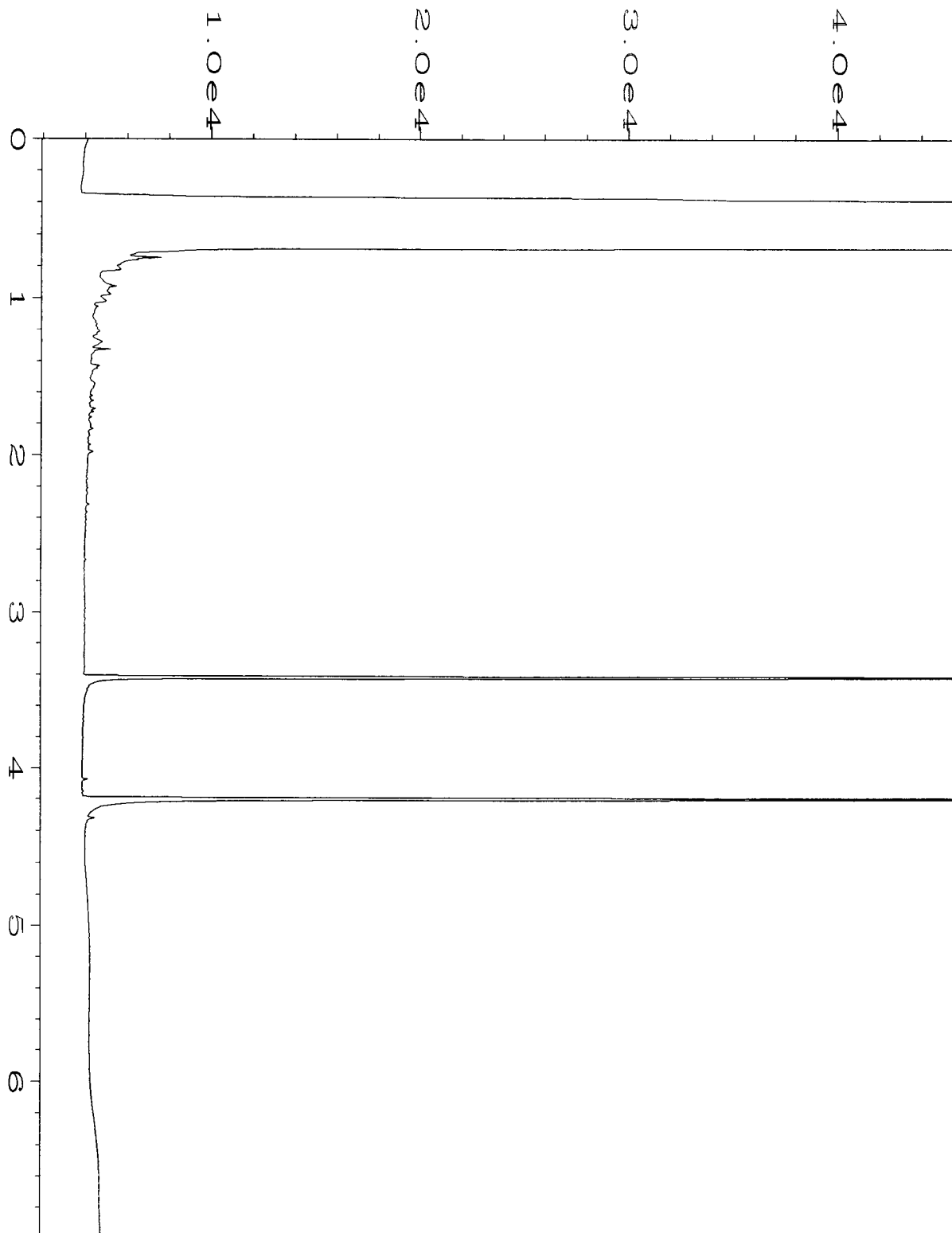
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

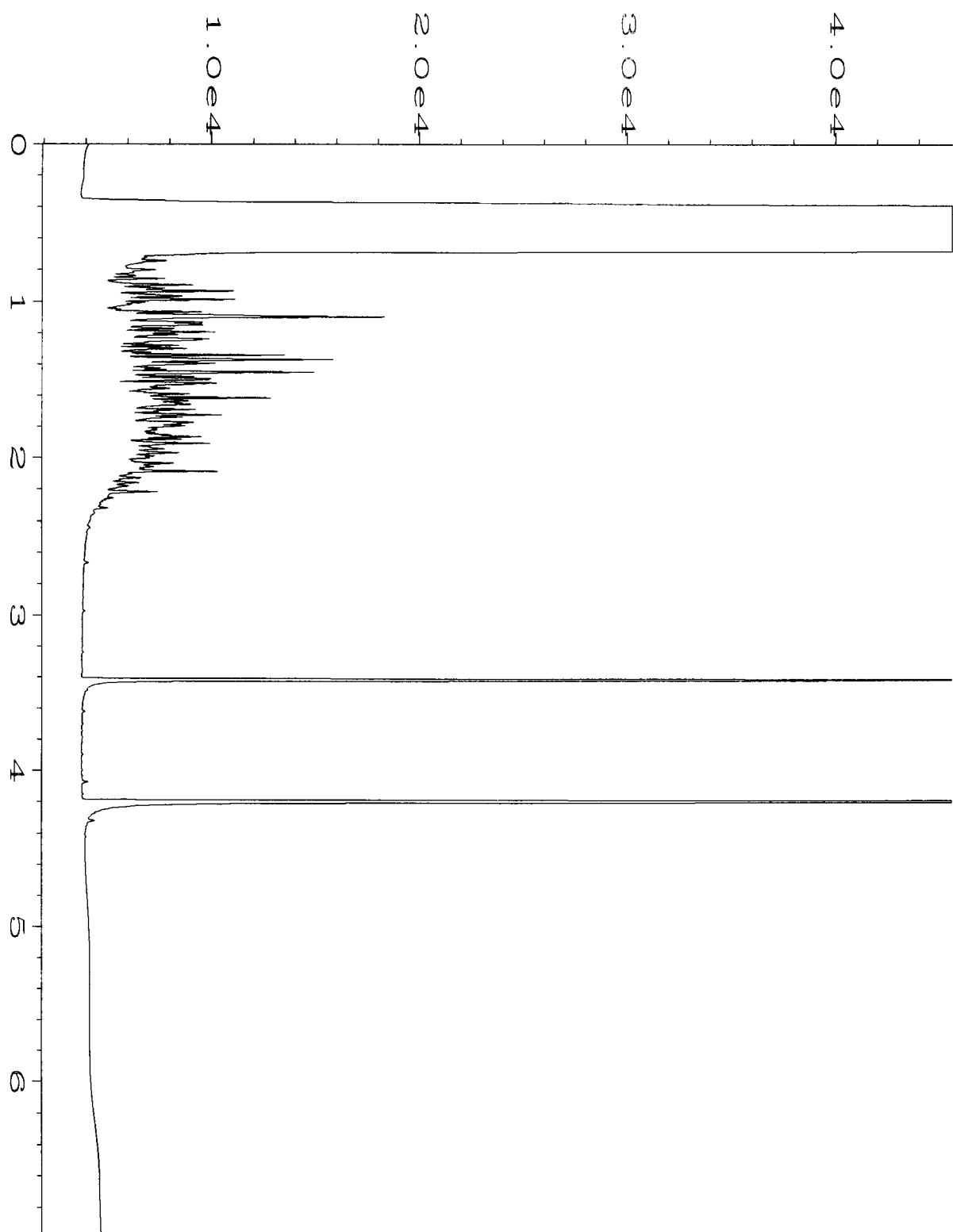
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



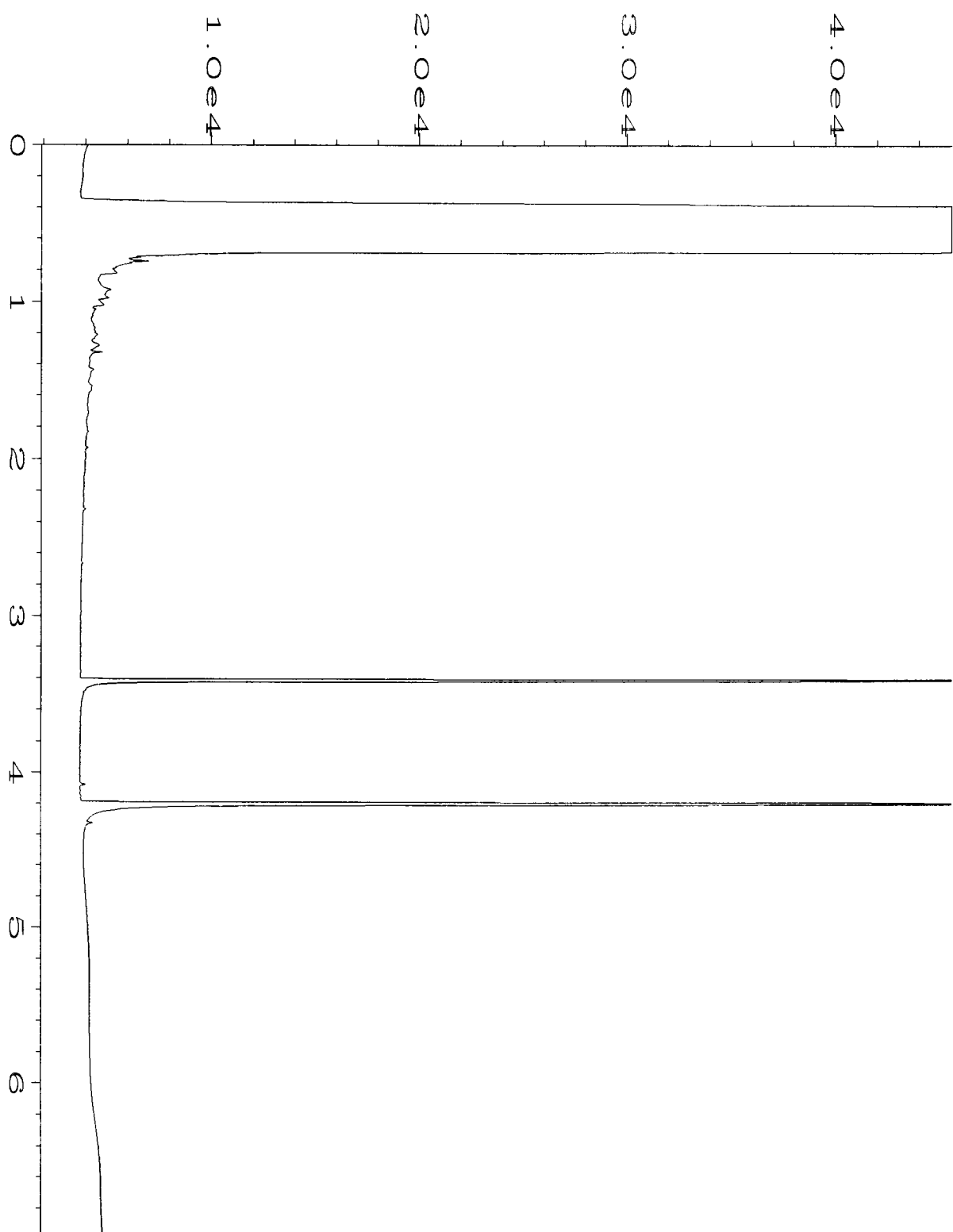
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\023F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 23 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504332-01 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 03:15 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



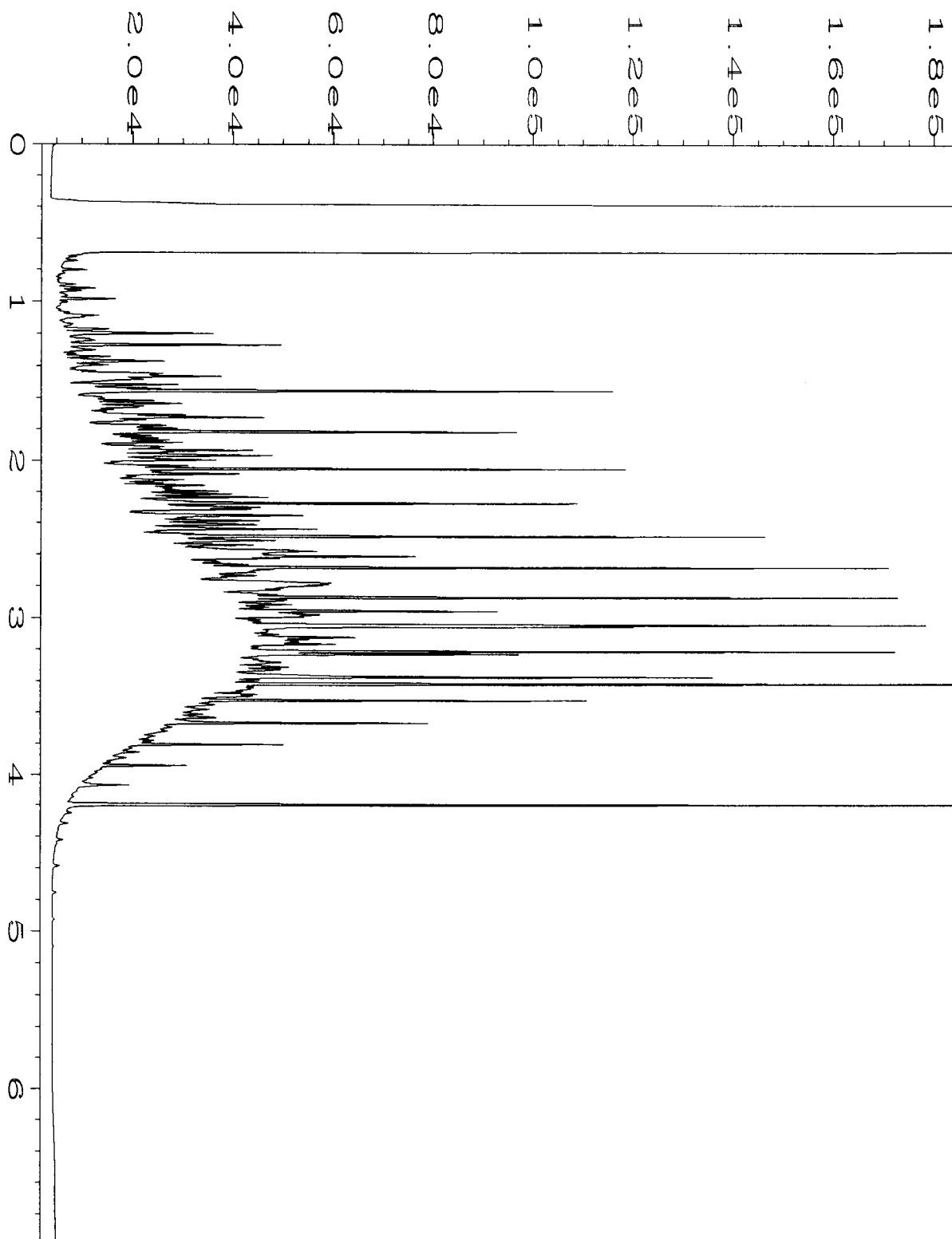
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\024F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 24 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504332-02 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 03:26 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\025F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504332-03 | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 03:36 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\011F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 11 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-860 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 10:52 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:51 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-28-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 Apr 15 09:03 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 Apr 15 09:50 AM | | |

504332

SAMPLE CHA OF CUSTODY

ME 04/17/15

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E. Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. C914-CC7 PO # _____

REMARKS ^{HOLD}
4/17/15 - Cont to hold 1 402 jar for forensics
- Release S-B01-A1, S-B01-A2, S-B01-B1

Page # 1 of 1/20

TURNAROUND TIME
Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|---------------------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|------|--------------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82870SIM | VOCs by 8280C | Metals by 200.8 | PCBs by Method 8082 | | HCLD | |
| S-B01-A1-201 | A1 | 201 | 01A | 4/17/15 | 1300 | Soil | 6 | X | X | X | | | | | | | START RELEASE HOLD |
| S-B01-A2-202 | A2 | 201 | 02A | L | 1310 | I | 6 | X | X | X | | | | | | | |
| S-B01-B1-201 | B1 | 201 | 03A | L | 1335 | I | 6 | X | X | X | | | | | | | |
| Samples received at <u>5</u> °C | | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|------------|---------|---------|------|
| Relinquished by: <i>[Signature]</i> | Liz Turkis | SIS | 4/17/15 | 1450 |
| Received by: <i>[Signature]</i> | Khan Phan | FEBT | 4/17/15 | 1450 |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504429 and amended

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 28, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 23, 2015 from the SOU_0914-001-12_20150423, F&BI 504429 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Liz Forbes, Suzy Stump, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 23, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150423, F&BI 504429 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504429 -01

SoundEarth Strategies
S-B01-04-270

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

Date Extracted: 04/23/15

Date Analyzed: 04/23/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-04-270 504429-01 | <0.02 | 0.12 | 0.12 | 0.74 | 36 | 90 |
| Method Blank 05-0817 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

Date Extracted: 04/23/15

Date Analyzed: 04/23/15

**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 48-168) |
|-----------------------------------|--|---|---|
| S-B01-04-270 504429-01 | 200 x | 320 | 97 |
| Method Blank 05-842 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

**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: 504357-14 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 89 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 93 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 93 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 92 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504418-06 (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 | 180 | 84 | 87 | 73-135 | 4 |

Laboratory Code: Laboratory Control Sample

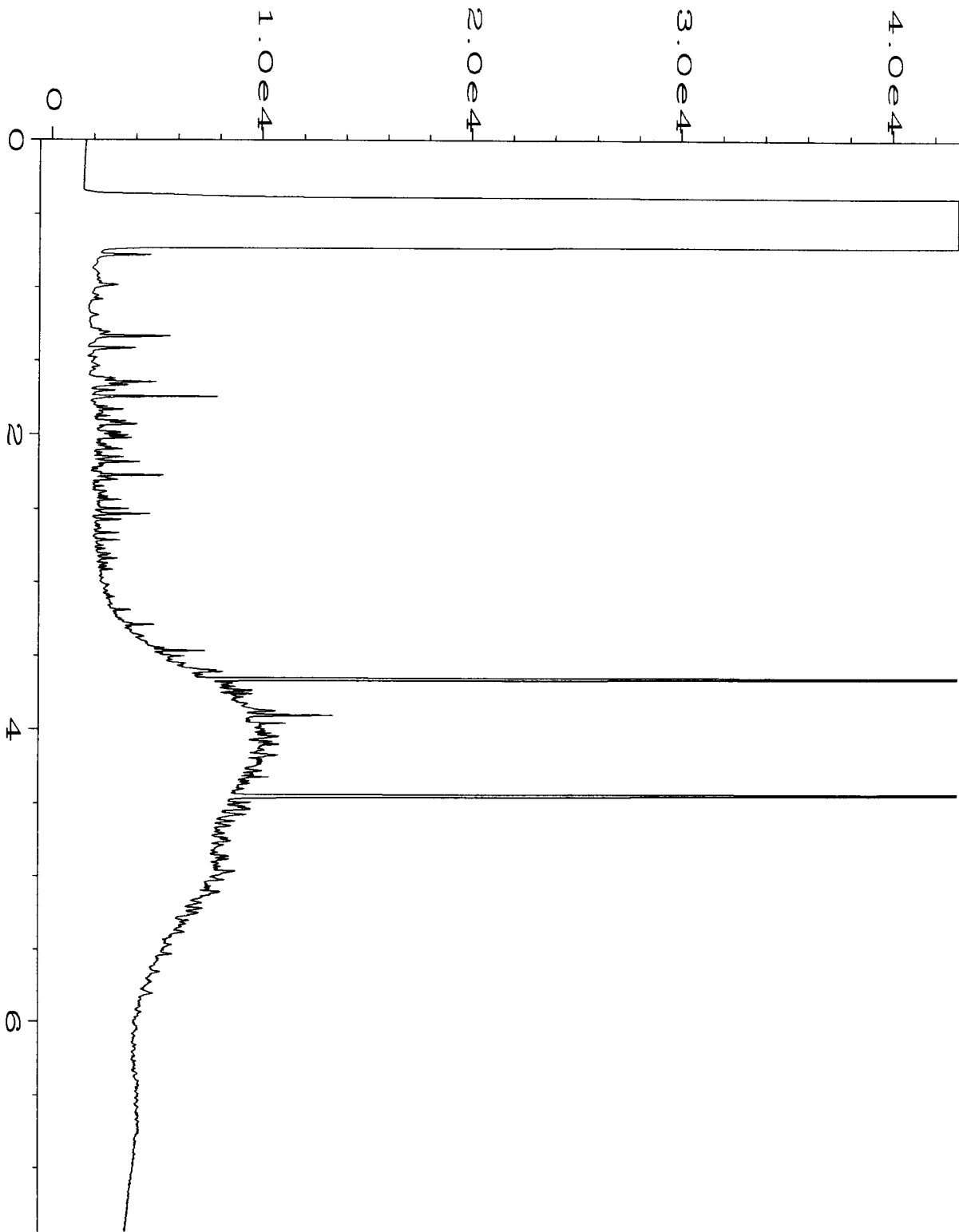
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 86 | 74-139 |

FRIEDMAN & BRUYA, INC.

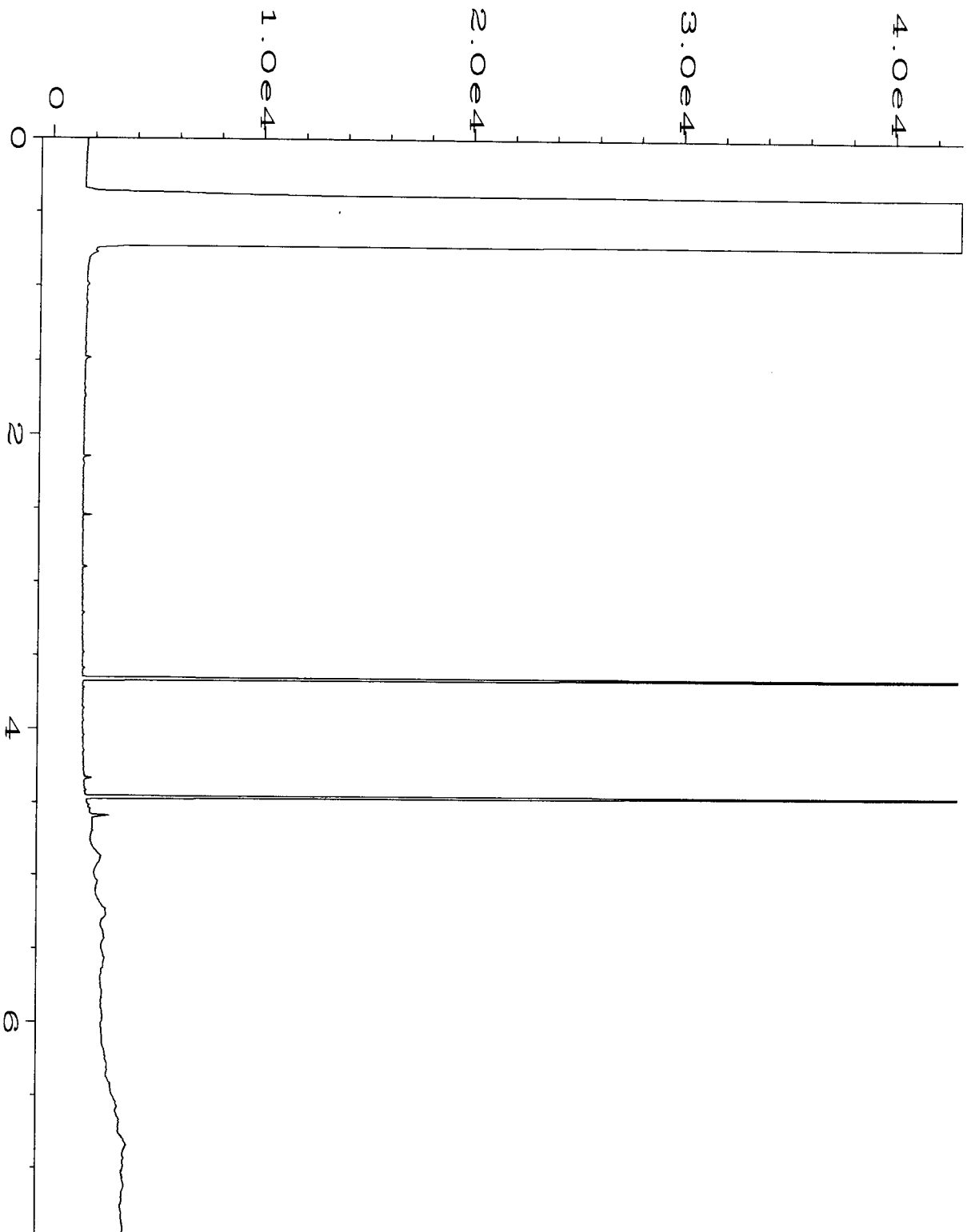
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

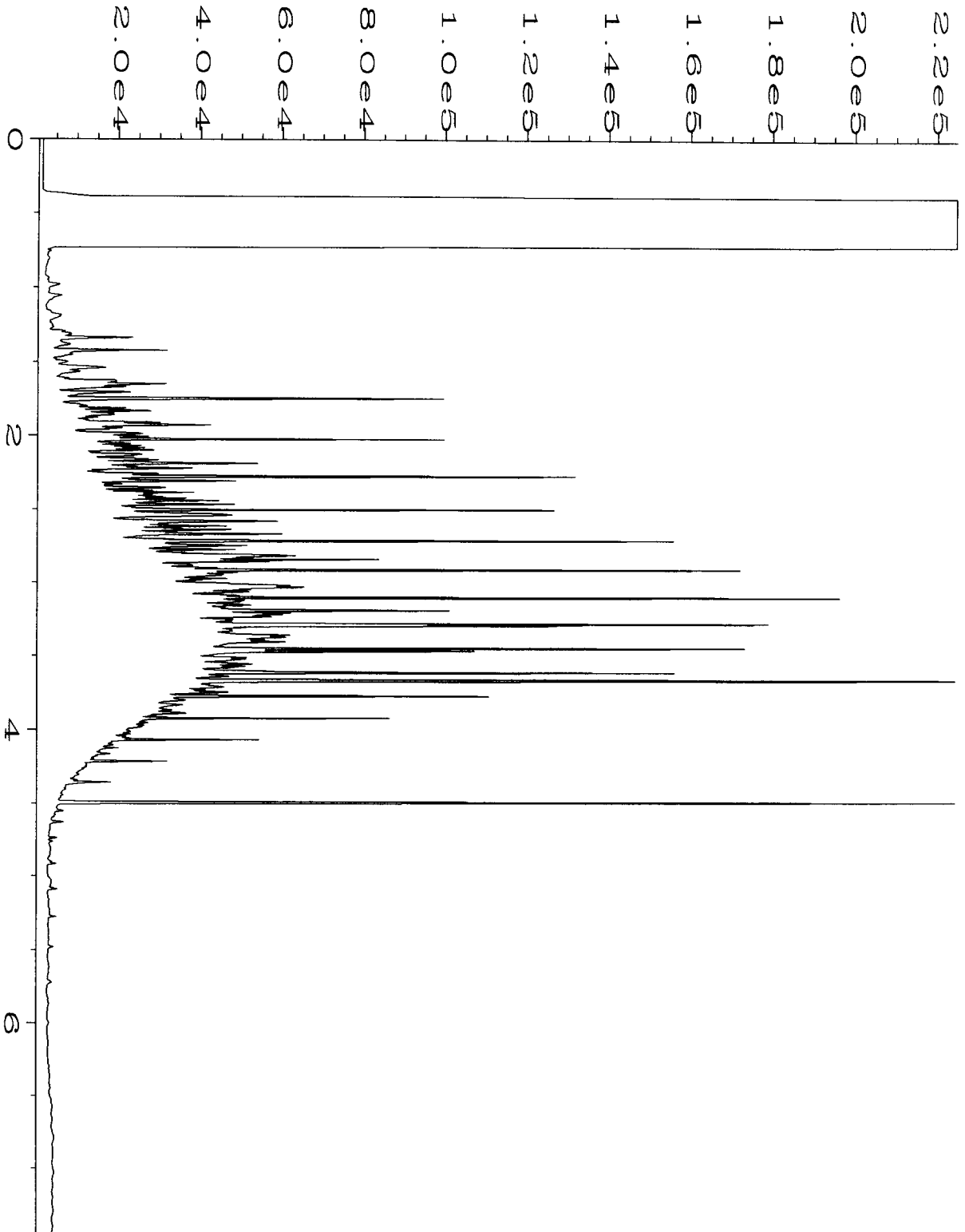
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-23-15\049F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 49 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504429-01 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 23 Apr 15 07:09 PM | Analysis Method | : END.MTH |
| Report Created on: | 24 Apr 15 09:41 AM | | |



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-23-15\025F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-842 mb | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 23 Apr 15 02:10 PM | Analysis Method | : END.MTH |
| Report Created on: | 24 Apr 15 09:41 AM | | |



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-23-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 23 Apr 15 10:00 AM | Analysis Method | : END.MTH |
| Report Created on: | 24 Apr 15 09:41 AM | | |

504429

SAMPLE CHA OF CUSTODY

ME 04/23/15

VS1 / DOI

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

| | |
|----------------------------|------------|
| SAMPLERS (signature) _____ | |
| PROJECT NAME/NO. _____ | PO # _____ |
| REMARKS _____ | |

| |
|--|
| Page # _____ of _____ TURNAROUND TIME Standard (2 Weeks) RUSH Rush charges authorized by: _____ |
| SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions |

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | | | |
|-------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | Notes | | |
| S-B1-04-200 | | | OIA-F | | | SOIL | | | | | | | | | | | |
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Samples received at 7 °C

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 |
|------------------------|-------------|---------|------|------|
| Relinquished by: _____ | | | | |
| Received by: _____ | James Bruya | F&B | 4/23 | 1330 |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 29, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included is the amended report from the testing of material submitted on April 23, 2015 from the SOU_0914-001-12_20150423, F&BI 504429 project. The sample ID has been updated.

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: Liz Forbes, Suzy Stump, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 28, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 23, 2015 from the SOU_0914-001-12_20150423, F&BI 504429 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Liz Forbes, Suzy Stump, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 23, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150423, F&BI 504429 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504429 -01

SoundEarth Strategies
S-B01-C4-270

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

Date Extracted: 04/23/15

Date Analyzed: 04/23/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-C4-270 504429-01 | <0.02 | 0.12 | 0.12 | 0.74 | 36 | 90 |
| Method Blank 05-0817 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

Date Extracted: 04/23/15

Date Analyzed: 04/23/15

**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 48-168) |
|-----------------------------------|--|---|---|
| S-B01-C4-270 504429-01 | 200 x | 320 | 97 |
| Method Blank 05-842 MB | <50 | <250 | 94 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

**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: 504357-14 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 89 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 93 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 93 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 92 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/23/15

Project: SOU_0914-001-12_20150423, F&BI 504429

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504418-06 (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 | 180 | 84 | 87 | 73-135 | 4 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 86 | 74-139 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.

Friedman & Bruya, Inc. #504459 and amended

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 28, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 24, 2015 from the SOU_0914_20150424, F&BI 504459 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 24, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914_20150424, F&BI 504459 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504459 -01 | S-B01-C1-263 |
| 504459 -02 | S-ESW01-B4-265 |
| 504459 -03 | S-SSW01-C5-265 |
| 504459 -04 | S-WSW01-C4-265 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15
 Date Received: 04/24/15
 Project: SOU_0914_20150424, F&BI 504459
 Date Extracted: 04/24/15
 Date Analyzed: 04/24/15 and 04/27/15

**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) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-B01-C1-263 504459-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 100 |
| S-ESW01-B4-265 504459-02 | <0.02 | <0.02 | 2.1 | 1.7 | 410 | ip |
| S-SSW01-C5-265 504459-03 | <0.02 | 0.066 | 0.052 | 0.35 | 22 | 89 |
| Method Blank 05-0819 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15
Date Received: 04/24/15
Project: SOU_0914_20150424, F&BI 504459
Date Extracted: 04/24/15
Date Analyzed: 04/24/15 and 04/27/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-B01-C1-263 504459-01 | <50 | <250 | 118 |
| S-ESW01-B4-265 504459-02 1/10 | 5,200 x | 21,000 | 119 |
| S-SSW01-C5-265 504459-03 | <50 | 310 | 111 |
| Method Blank 05-850 MB | <50 | <250 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/24/15

Project: SOU_0914_20150424, F&BI 504459

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 504385-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 77 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 87 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 87 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 88 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/24/15

Project: SOU_0914_20150424, F&BI 504459

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504447-04 (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 | <50 | 108 | 103 | 63-146 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 101 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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.

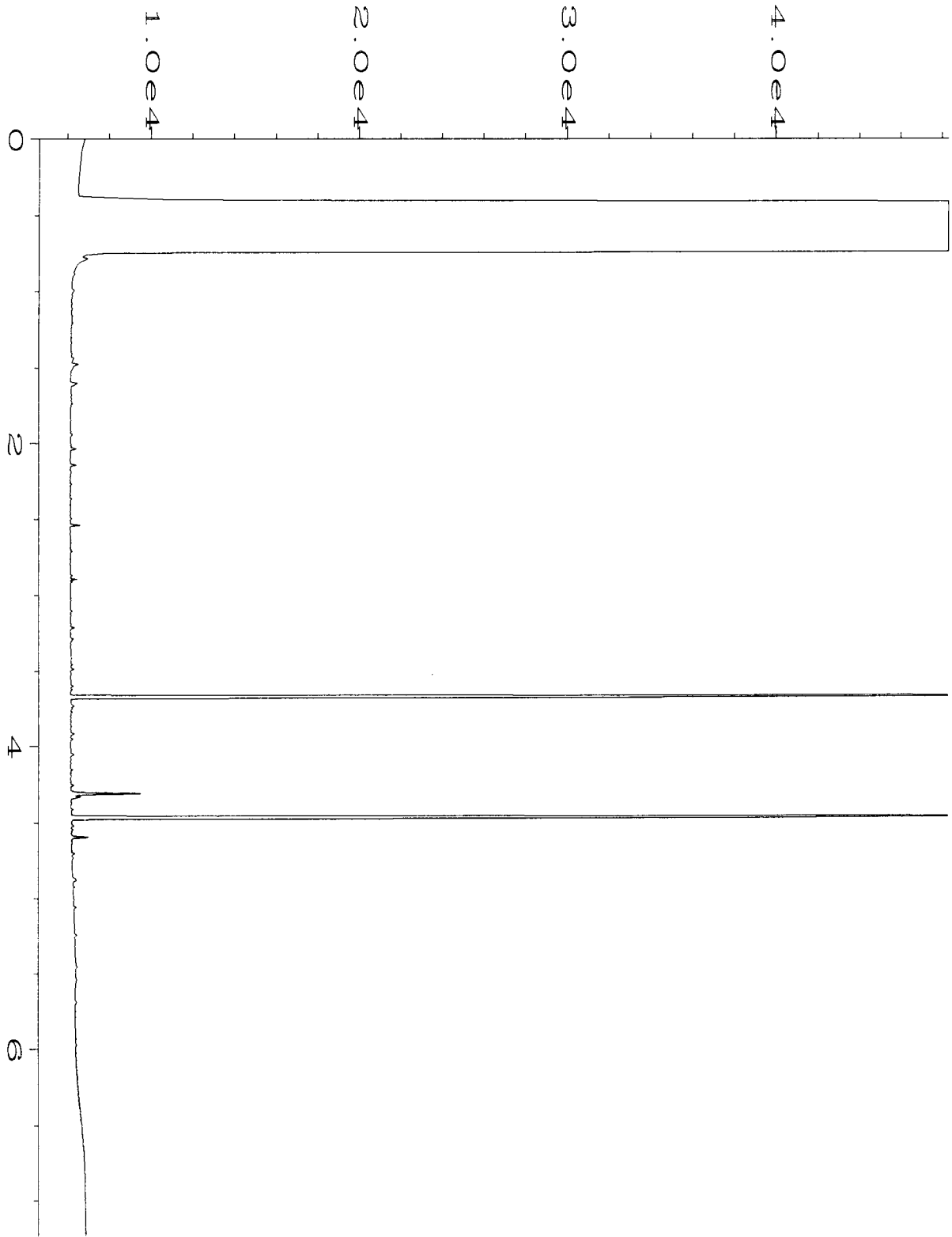
vo - The value reported fell outside the control limits established for this analyte.

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

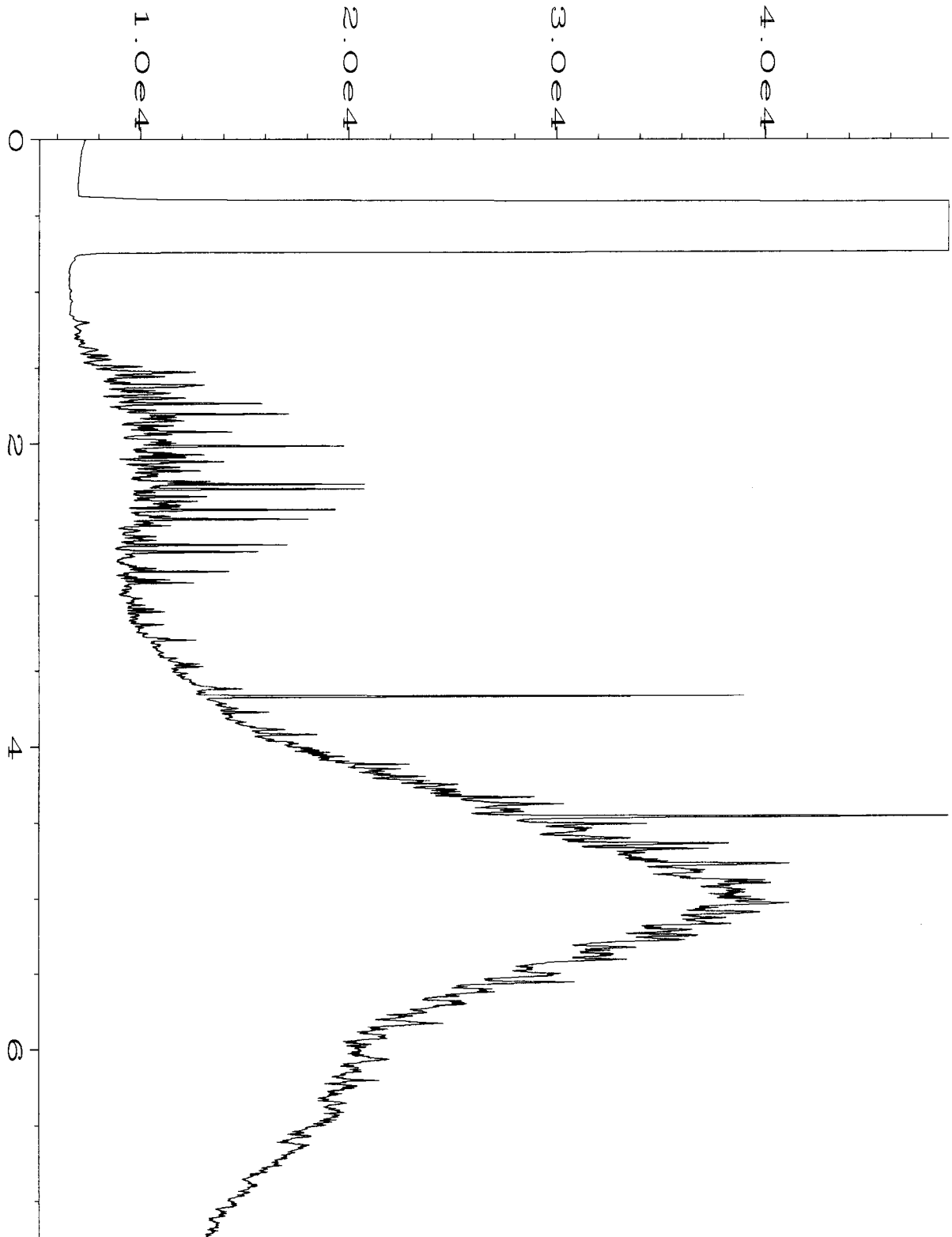
Acc
Meth
Inj
Vial
Seq
Date

Acc
Meth
Inj
Vial
Seq
Date

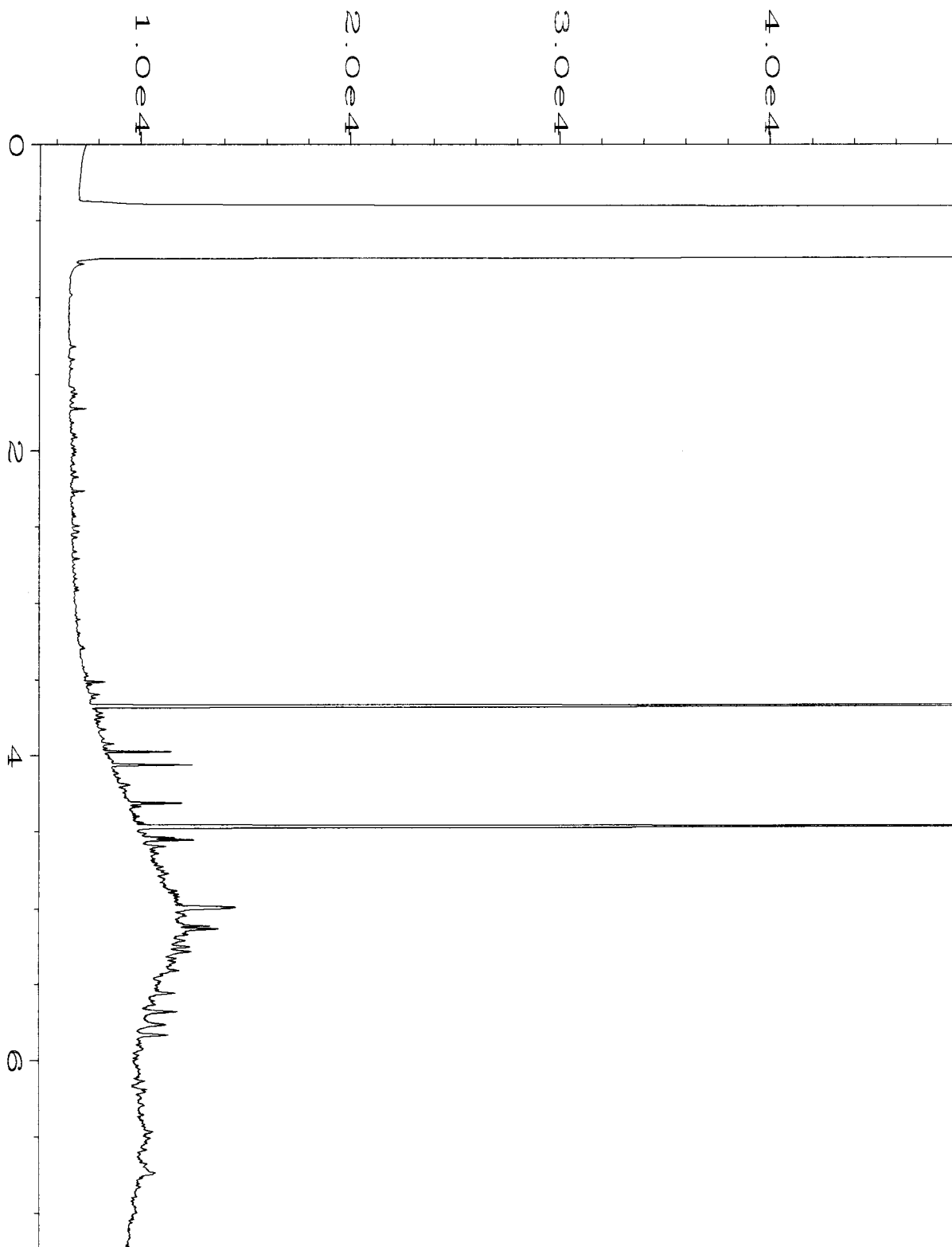
Acc
Meth
Inj
Vial
Seq
Date



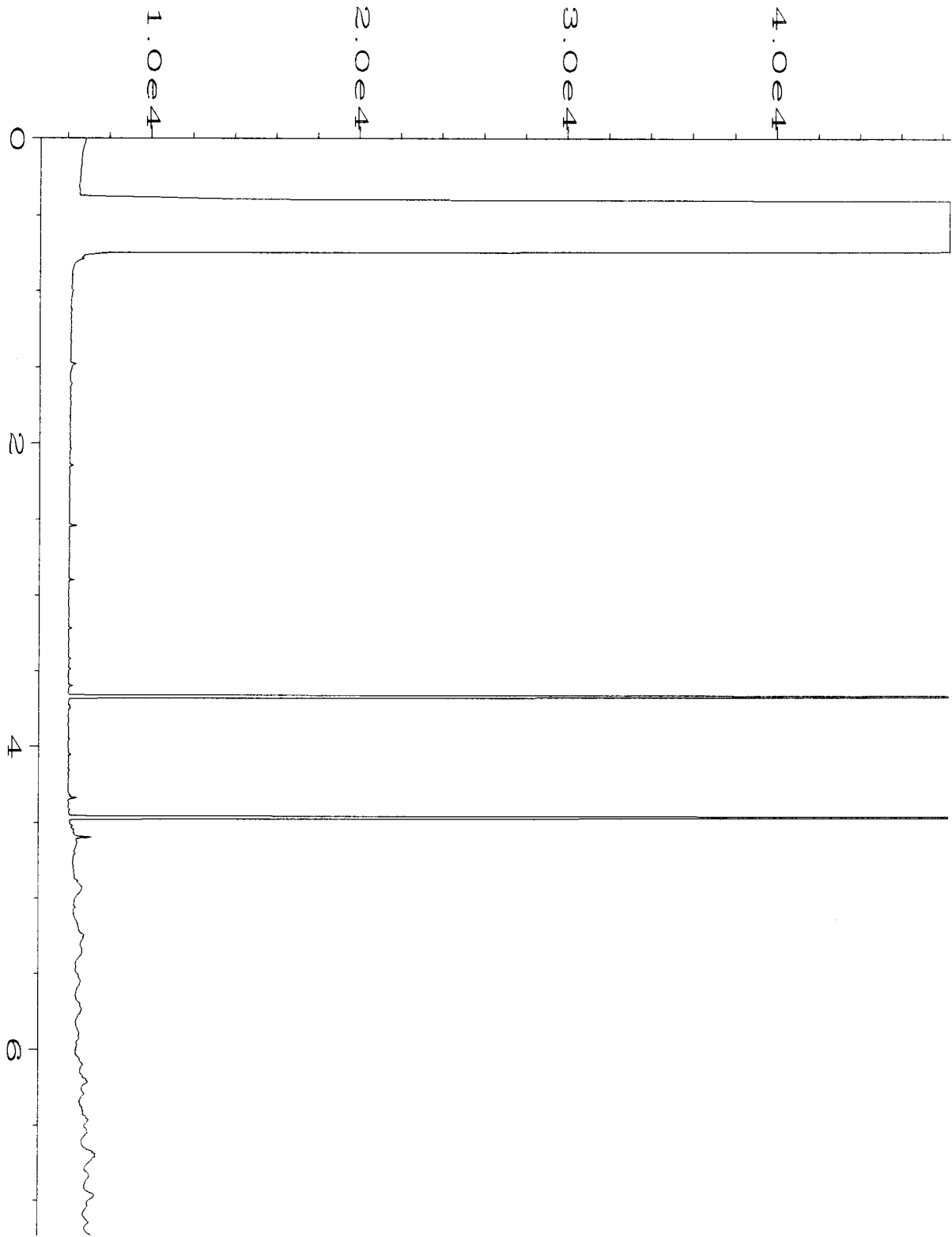
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-24-15\052F0901.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 52 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504459-01 | Sequence Line | : 9 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 24 Apr 15 07:23 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 Apr 15 08:31 AM | | |



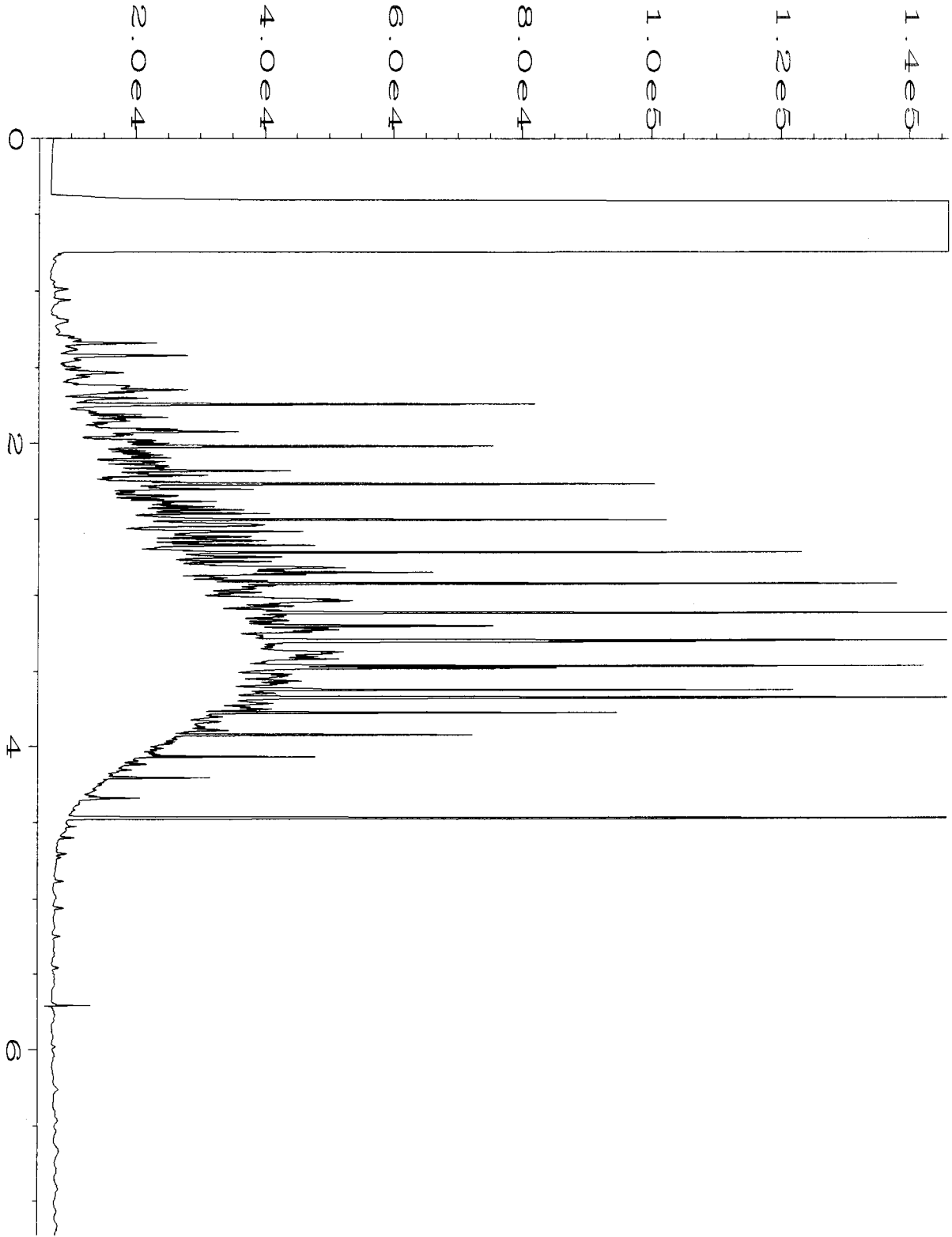
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-27-15\007F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 7 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504459-02 1/10 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 27 Apr 15 09:16 AM | Analysis Method | : DX.MTH |
| Report Created on: | 27 Apr 15 10:39 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-27-15\006F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 6 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504459-03 rr | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 27 Apr 15 09:07 AM | Analysis Method | : DX.MTH |
| Report Created on: | 27 Apr 15 10:39 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-24-15\026F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 26 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-854 mb | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 24 Apr 15 02:14 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 Apr 15 08:31 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-24-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 24 Apr 15 09:03 AM | Analysis Method | : DX.MTH |
| Report Created on: | 27 Apr 15 08:31 AM | | |

504459

SAMPLE CHA OF CUSTODY - ME 02/24/15

VSI/

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0914 PO #

REMARKS Rush ASAP

Page # 1 of 1 DOI

TURNAROUND TIME
Standard (2 Weeks)
RUSH ASAP
Rush charges authorized by: B. B.

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth Elm. | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|---|-----------------|----------------------|------------------------------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-B01-C1-263 | C1 | 263 | 01 ^A _F | 4/24/15 | 1110 | SoN | 6 | X | X | X | | | | | | | |
| S-ESW01-B4-265 | B4 | 265 | 02 | | 1112 | | 6 | X | X | X | | | | | | | |
| S-SSW01-C5-265 | C5 | 265 | 03 | | 1115 | | 6 | X | X | X | | | | | | | |
| S-WSW01-C4-265 | C4 | 265 | 04 ^A _F | | 1120 | | 6 | | | | | | | | | | HOLD |
| <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> LVR 4/24/15 </div> | | | | | | | | | | | | | | | | | |
| Samples received at 5 °C | | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|--------------|---------|---------|------|
| Relinquished by: <i>[Signature]</i> | Gloria Fitch | SES | 4/24/15 | 1420 |
| Received by: <i>[Signature]</i> | Kham Pham | FEBI | 4/24/15 | 1420 |
| Relinquished by: | | | | |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 30, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included is the amended report from the testing of material submitted on April 24, 2015 from the SOU_0914_20150424, F&BI 504459 project. Per your request, the sample ID S-B01-C1-263 has been amended to S-B01-C4-263.

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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 28, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 24, 2015 from the SOU_0914_20150424, F&BI 504459 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 24, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914_20150424, F&BI 504459 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504459 -01 | S-B01-C4-263 |
| 504459 -02 | S-ESW01-B4-265 |
| 504459 -03 | S-SSW01-C5-265 |
| 504459 -04 | S-WSW01-C4-265 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15
Date Received: 04/24/15
Project: SOU_0914_20150424, F&BI 504459
Date Extracted: 04/24/15
Date Analyzed: 04/24/15 and 04/27/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-C4-263 504459-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 100 |
| S-ESW01-B4-265 504459-02 | <0.02 | <0.02 | 2.1 | 1.7 | 410 | ip |
| S-SSW01-C5-265 504459-03 | <0.02 | 0.066 | 0.052 | 0.35 | 22 | 89 |
| Method Blank 05-0819 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15
Date Received: 04/24/15
Project: SOU_0914_20150424, F&BI 504459
Date Extracted: 04/24/15
Date Analyzed: 04/24/15 and 04/27/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-B01-C4-263 504459-01 | <50 | <250 | 118 |
| S-ESW01-B4-265 504459-02 1/10 | 5,200 x | 21,000 | 119 |
| S-SSW01-C5-265 504459-03 | <50 | 310 | 111 |
| Method Blank 05-850 MB | <50 | <250 | 120 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/24/15

Project: SOU_0914_20150424, F&BI 504459

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 504385-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 77 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 87 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 87 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 88 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/15

Date Received: 04/24/15

Project: SOU_0914_20150424, F&BI 504459

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504447-04 (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 | <50 | 108 | 103 | 63-146 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 101 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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.

504459

SAMPLE CHA OF CUSTODY ME 04/24/15

US/ 1 DO1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0914 PO #

REMARKS
Rush ASAP

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH ASAP
Rush charges authorized by: B. B.

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|---|-----------------|--------------|------------------------------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|------|
| | | | | | | | | NWTPH-DX | NWTPH-GX | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| C4 | C4 | Elm. | | | | | | | | | | | | | | |
| S-B01-01-263 | E1 | 263 | 01 ^A _F | 4/24/15 | 1110 | SoN | 6 | X | X | X | | | | | | |
| S-E5W01-B4-265 | B4 | 265 | 02 | | 1112 | | 6 | X | X | X | | | | | | |
| S-S5W01-C5-265 | C5 | 265 | 03 | | 1115 | | 6 | X | X | X | | | | | | |
| S-W5W01-C4-265 | C4 | 265 | 04 ^A _F | | 1120 | | 6 | | | | | | | | | HOLD |
| <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> LVR 4/24/15 </div> | | | | | | | | | | | | | | | | |
| Samples received at 5 °C | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|------------|---------|---------|------|
| Relinquished by: <i>[Signature]</i> | E. Forbes | SES | 4/24/15 | 1420 |
| Received by: <i>[Signature]</i> | Rhan Phan | FEB I | 4/24/15 | 1420 |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504514

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 4, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 28, 2015 from the SOU_0914_20150428, F&BI 504514 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0504R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 28, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914_20150428, F&BI 504514 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504514 -01 | S-B01-C1-255 |
| 504514 -02 | S-WSW01-C2-255 |
| 504514 -03 | S-WSW01-C1-255 |
| 504514 -04 | S-B01-B1-255 |
| 504514 -05 | S-B01-A1-255 |
| 504514 -06 | S-B01-A2-255 |
| 504514 -07 | S-B01-B2-255 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15
 Date Received: 04/28/15
 Project: SOU_0914_20150428, F&BI 504514
 Date Extracted: 04/29/15
 Date Analyzed: 04/29/15 and 04/30/15

**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) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-B01-C1-255 504514-01 | <0.02 | <0.02 | <0.02 | <0.06 | 3.3 | 81 |
| S-WSW01-C2-255 504514-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| S-WSW01-C1-255 504514-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| S-B01-B1-255 504514-04 1/5 | <0.02 j | <0.1 | 3.2 | 3.5 | 470 | 99 |
| S-B01-A1-255 504514-05 | 0.036 | 0.030 | <0.02 | <0.06 | 2.7 | 88 |
| S-B01-A2-255 504514-06 1/5 | <0.02 j | 7.0 | 4.9 | 60 | 1,400 | 113 |
| S-B01-B2-255 504514-07 1/5 | <0.02 j | 6.8 | 3.4 | 7.6 | 840 | 104 |
| Method Blank 05-0861 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15
Date Received: 04/28/15
Project: SOU_0914_20150428, F&BI 504514
Date Extracted: 04/29/15
Date Analyzed: 04/29/15

**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> (% Recovery) (Limit 56-165) |
|-----------------------------------|--|---|--|
| S-B01-C1-255 504514-01 | <50 | <250 | 107 |
| S-WSW01-C2-255 504514-02 | <50 | <250 | 108 |
| S-WSW01-C1-255 504514-03 | <50 | <250 | 105 |
| S-B01-B1-255 504514-04 | 72 x | <250 | 107 |
| S-B01-A1-255 504514-05 | <50 | <250 | 107 |
| S-B01-A2-255 504514-06 | 390 x | <250 | 98 |
| S-B01-B2-255 504514-07 | 170 x | <250 | 101 |
| Method Blank 05-873 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/28/15

Project: SOU_0914_20150428, F&BI 504514

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 504270-06 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/28/15

Project: SOU_0914_20150428, F&BI 504514

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504514-01 (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 | <50 | 106 | 110 | 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 | 105 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

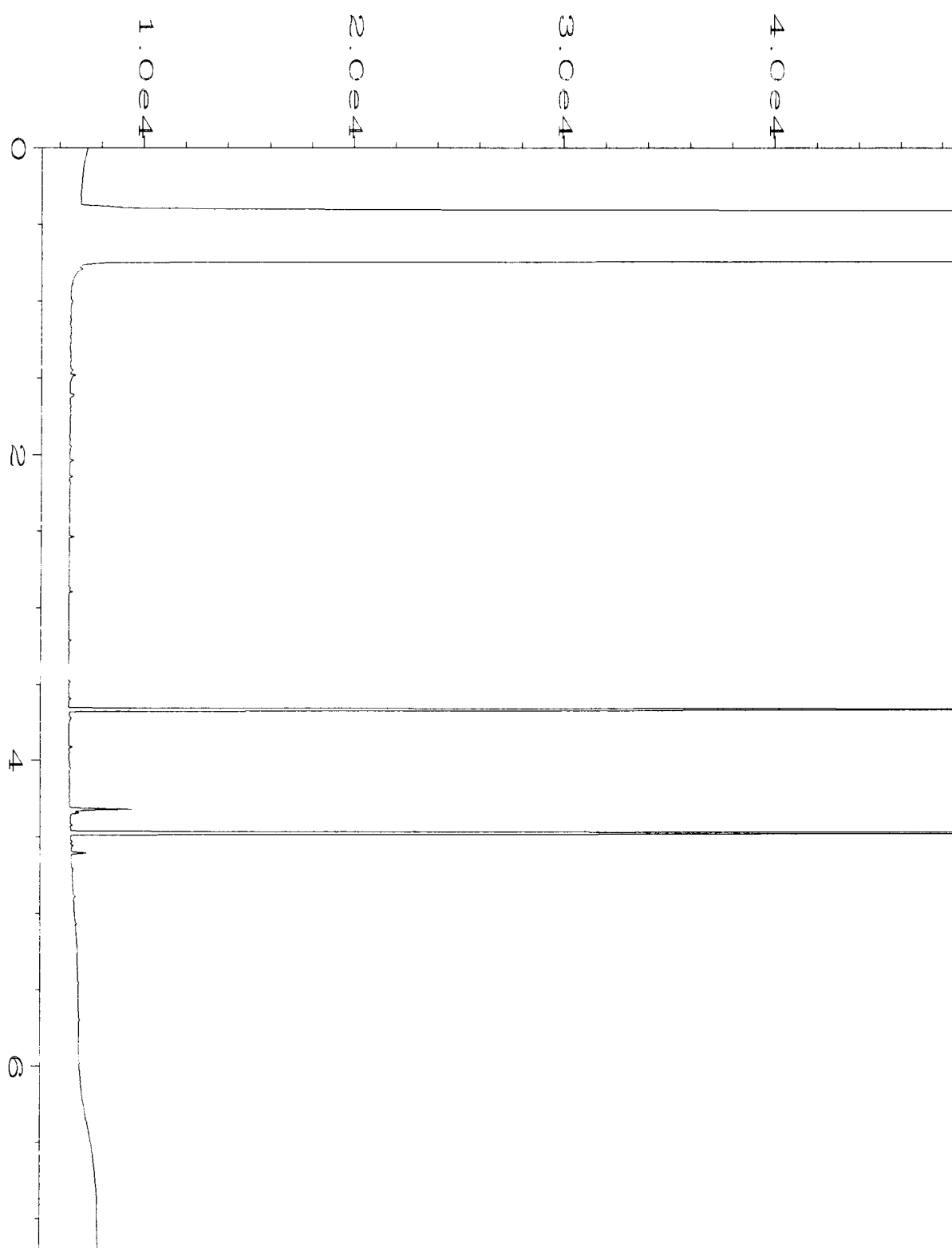
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

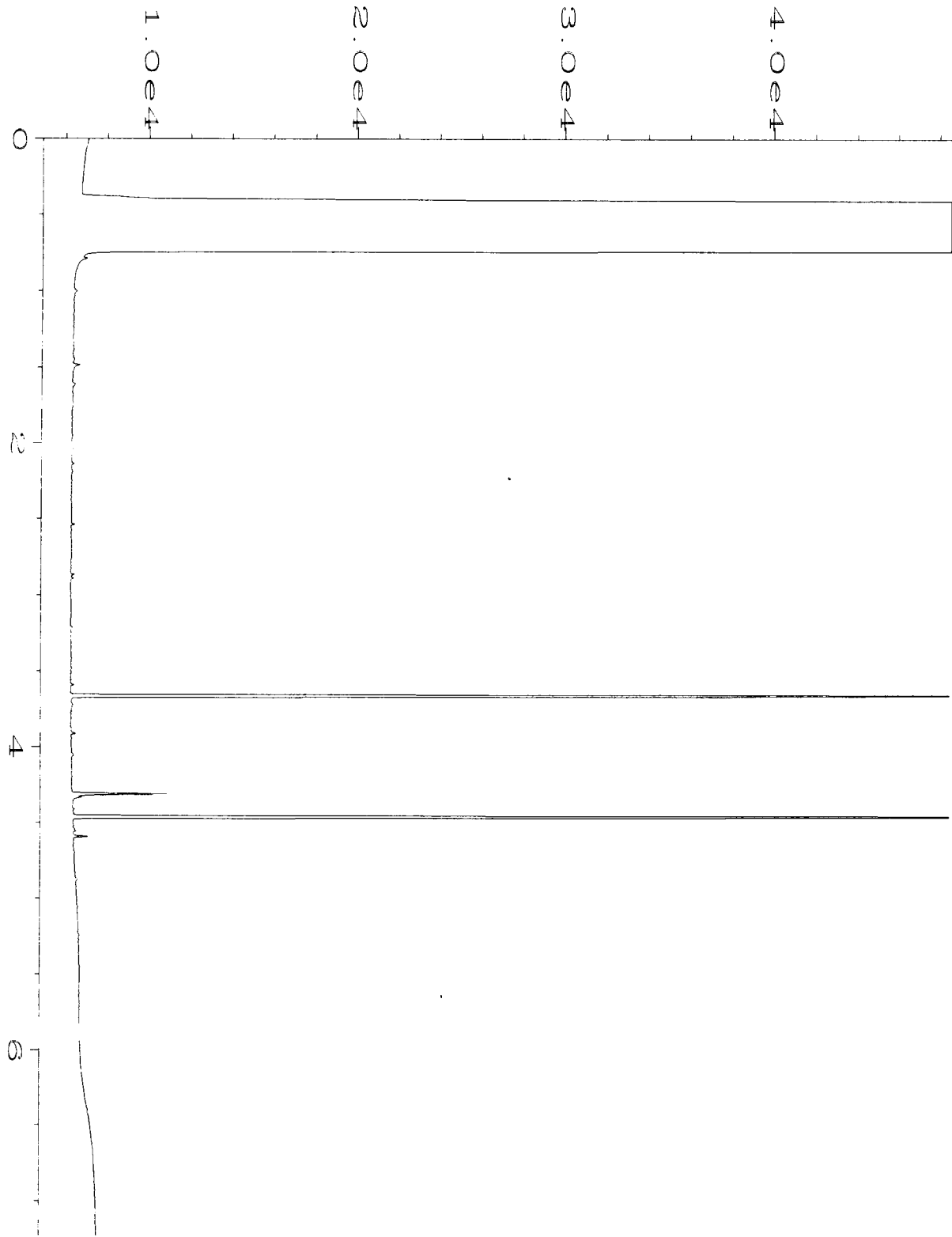
vo - The value reported fell outside the control limits established for this analyte.

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

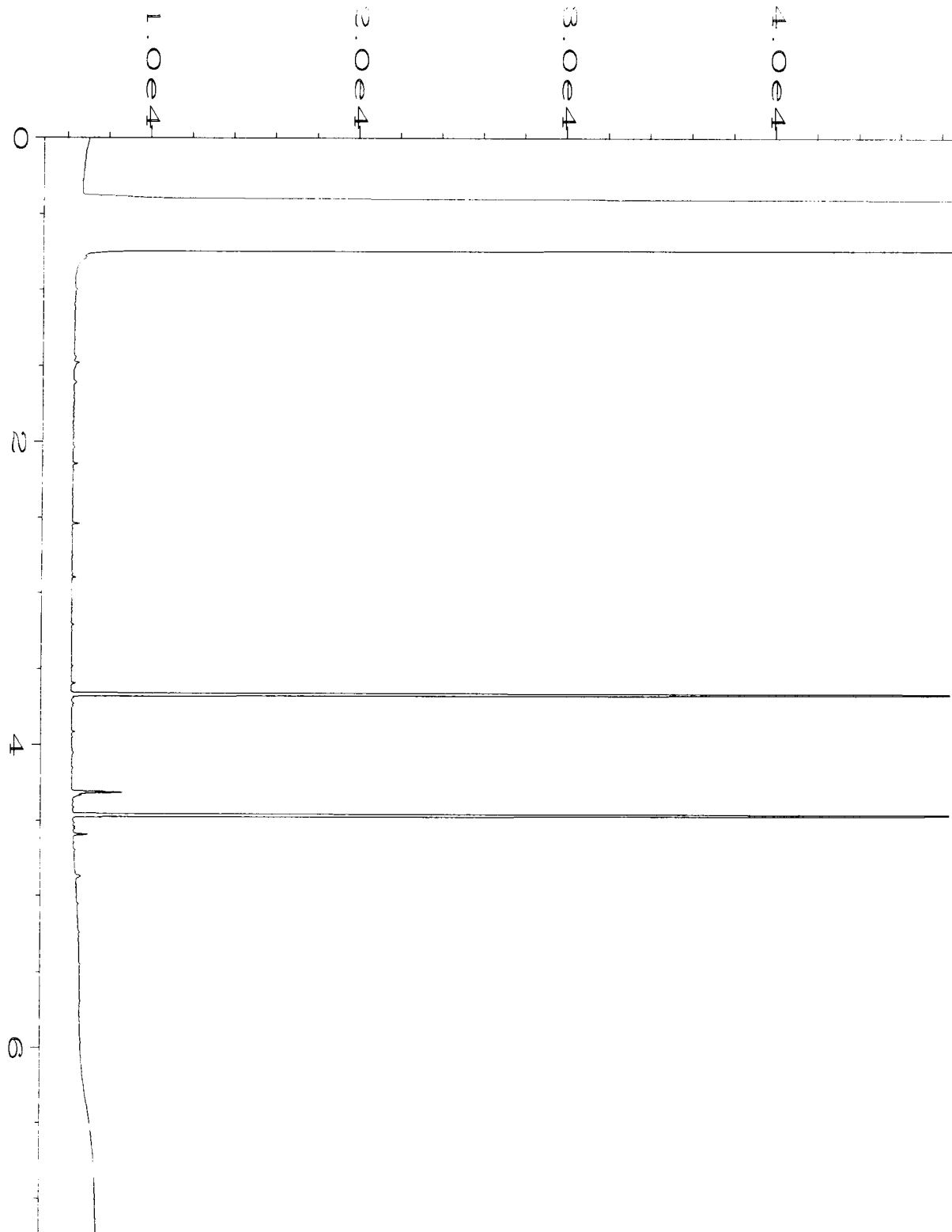


| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\010F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 10 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 10:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:37 AM | | |

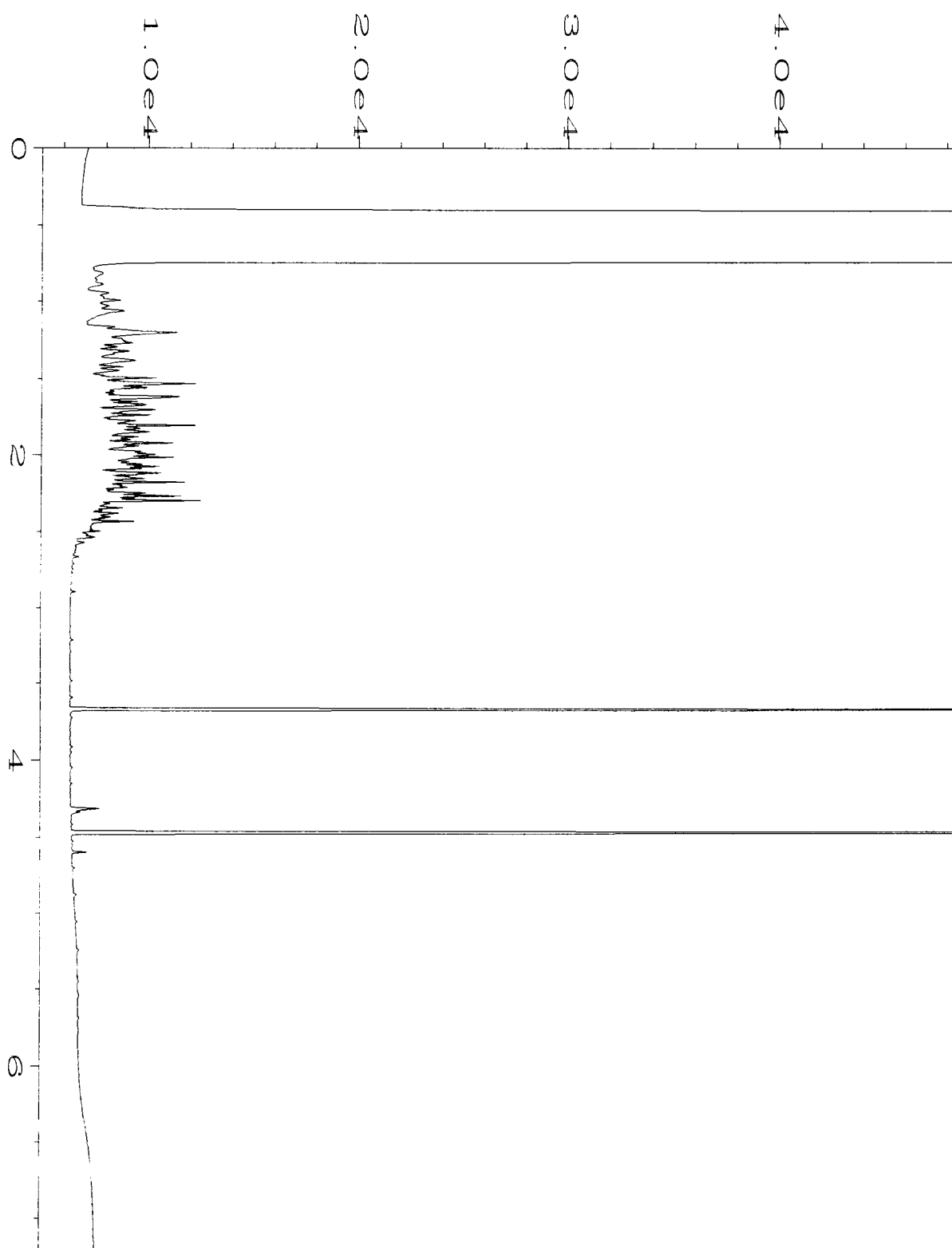
020F0301.D



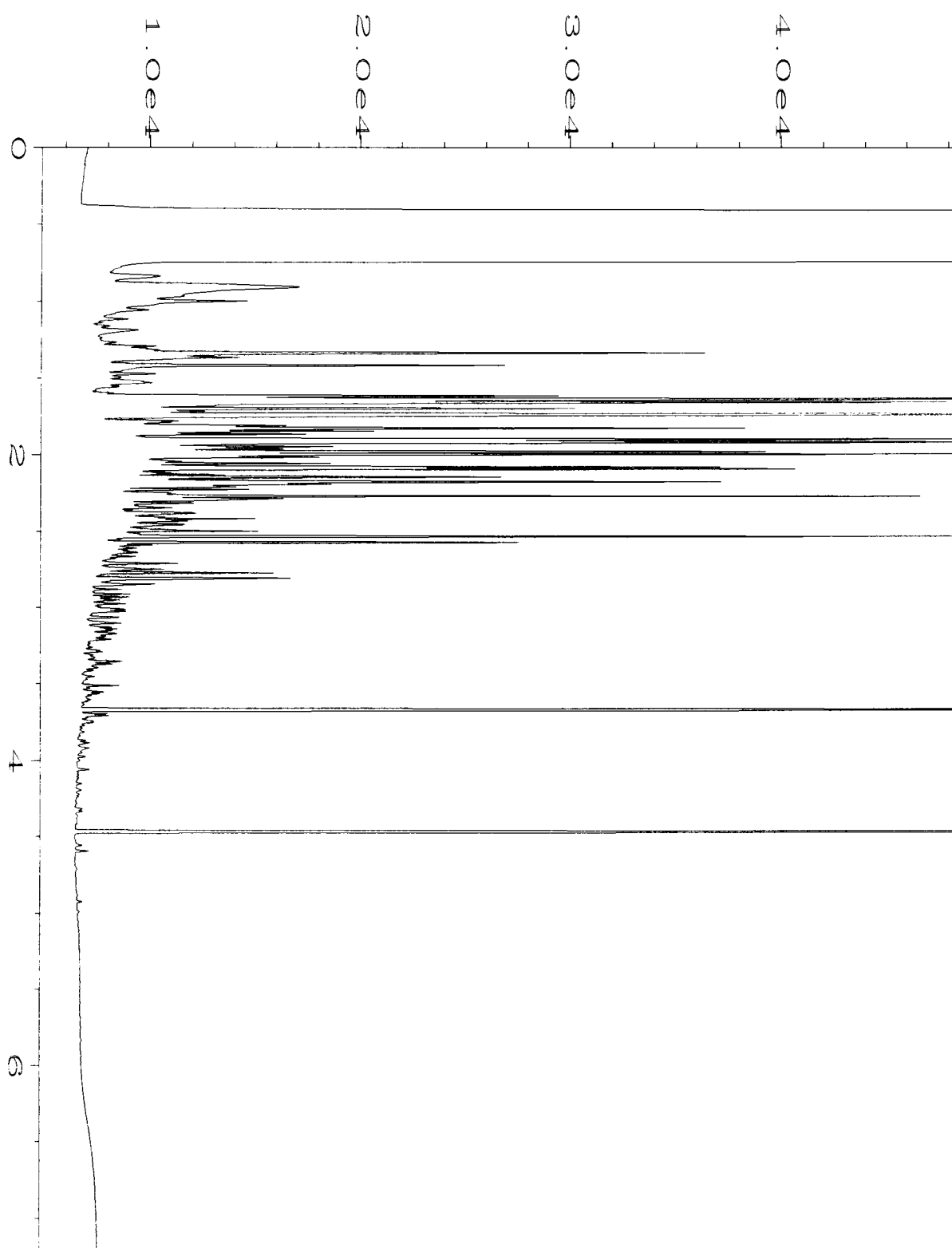
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\020F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 20 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 12:38 PM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:37 AM | | |



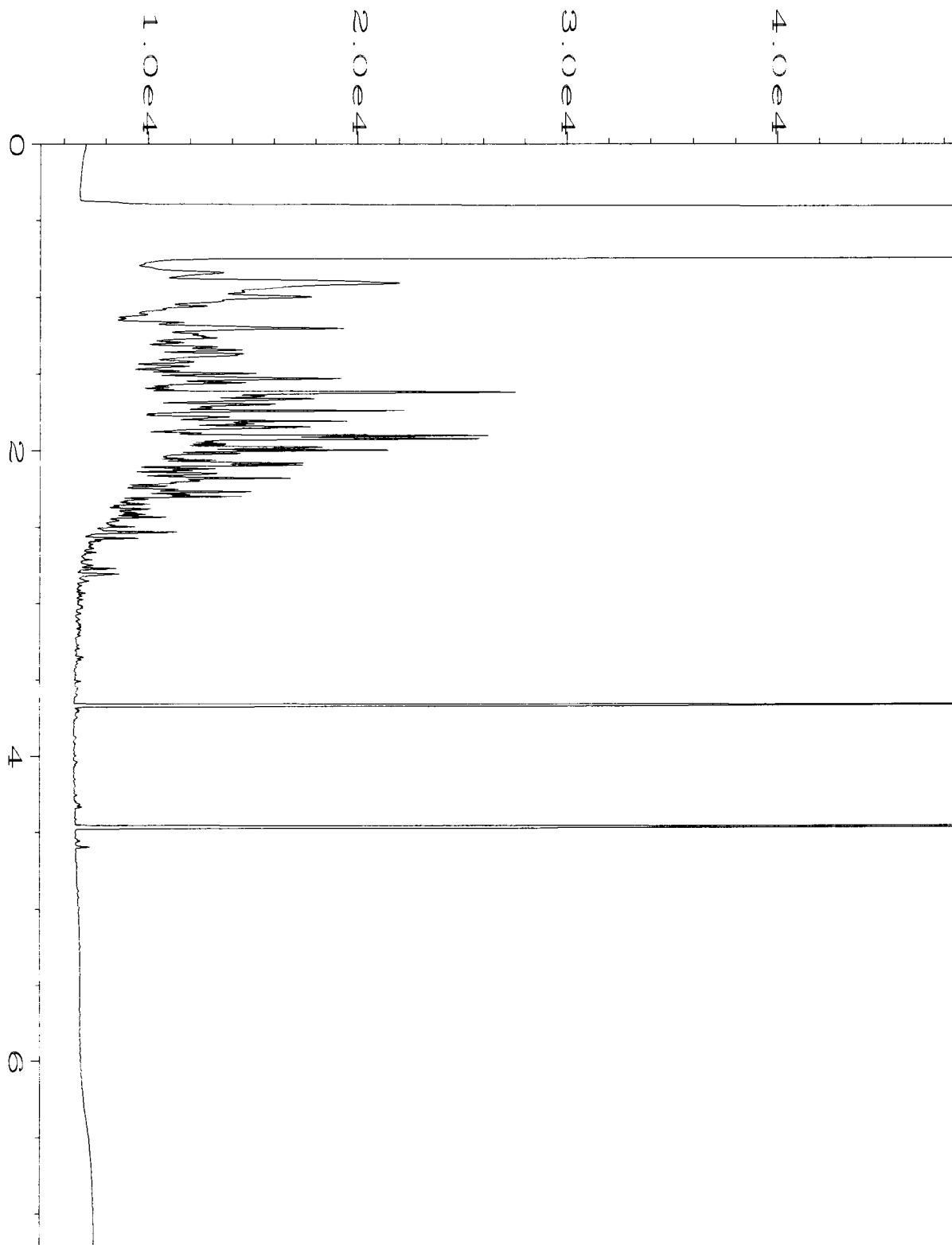
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\021F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 21 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-03 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 12:49 PM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:37 AM | | |



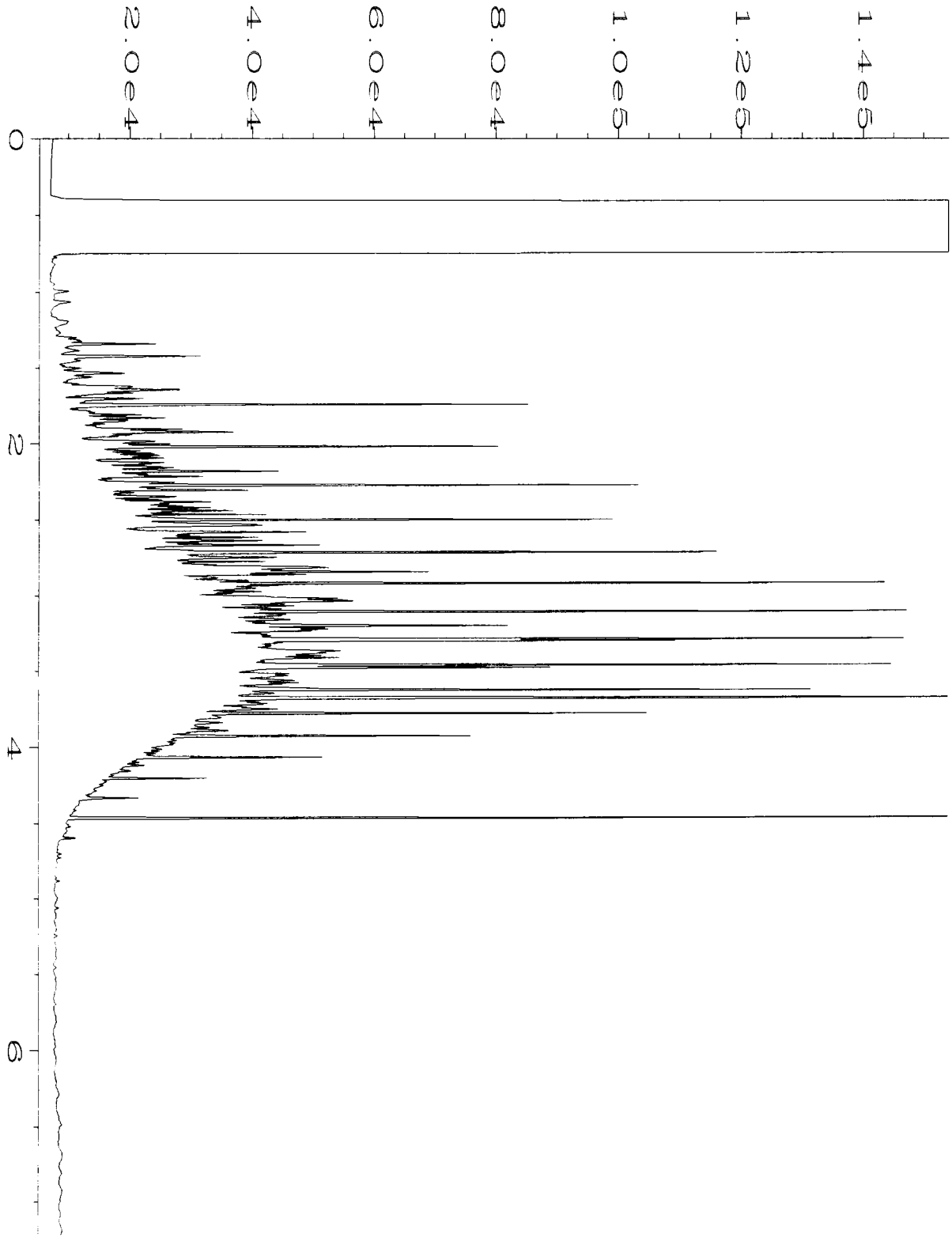
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\022F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 22 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-04 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 01:11 PM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\024F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 24 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-06 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 01:33 PM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\025F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504514-07 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 01:44 PM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-29-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 Apr 15 08:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 30 Apr 15 09:38 AM | | |

504514

SAMPLE CHA OF CUSTODY

ME 4/28/15 DO, VS.

Send Report to R. Roberts, G. Stampf, E. Forbes, J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

0914

REMARKS

RUSH S-WSW01-C2-255 and S-WSW01-C1-255

Page # of

TURNAROUND TIME

Standard (2-Weeks)

RUSH *

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

| Sample ID | Sample Location | Sample Depth Elev. | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|----------------|-----------------|--------------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|--------------------------|-----------------|---------------------|-------|----------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-B01-C1-255 | C1 | 255 | 01 | 4/28 | 1050 | Soil | 6 | X | X | X | | | | | | Standard |
| S-WSW01-C2-255 | C2 | 255 | 02 | | 1140 | | 6 | X | X | X | | | | | | RUSH * |
| S-WSW01-C1-255 | C1 | 255 | 03 | | 1143 | | 6 | X | X | X | | | | | | RUSH * |
| S-B01-B1-255 | B1 | 255 | 04 | | 1150 | | 6 | X | X | X | | | | | | Standard |
| S-B01-A1-255 | A1 | 255 | 05 | | 1205 | | 6 | X | X | X | | | | | | |
| S-B01-A2-255 | A2 | 255 | 06 | | 1315 | | 6 | X | X | X | | | | | | |
| S-B01-B2-255 | B2 | 255 | 07 | | 1327 | | 6 | X | X | X | | | | | | |
| | | | | | | | | LIFE 4/28/15 | | | | | | | | |
| | | | | | | | | | | | | Samples received at 6 °C | | | | |

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|-------------------------------------|-------------|---------|---------|------|
| Relinquished by: <i>[Signature]</i> | Crump, Gish | SES | 4/28 | 1543 |
| Received by: <i>[Signature]</i> | Walt Laydon | FBT | 4/28/15 | 1543 |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504531

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 4, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 29, 2015 from the SOU_0914-001-12_20150429, F&BI 504531 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0504R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 29, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150429, F&BI 504531 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504531 -01 | S-B01-A3-255 |
| 504531 -02 | S-ESW01-A3-255 |
| 504531 -03 | S-ESW01-A2-255 |
| 504531 -04 | S-SSW01-A4-255 |
| 504531 -05 | S-ESW01-A1-255 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/29/15

Project: SOU_0914-001-12_20150429, F&BI 504531

Date Extracted: 04/29/15

Date Analyzed: 04/29/15 and 04/30/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-A3-255 504531-01 | <0.02 | 0.40 | 0.29 | 2.7 | 230 | 98 |
| S-ESW01-A3-255 504531-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |
| S-ESW01-A2-255 504531-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 90 |
| S-SSW01-A4-255 504531-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |
| S-ESW01-A1-255 504531-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |
| Method Blank 05-0864 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/29/15

Project: SOU_0914-001-12_20150429, F&BI 504531

Date Extracted: 04/29/15

Date Analyzed: 04/29/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-B01-A3-255 504531-01 | <50 | <250 | 102 |
| S-ESW01-A3-255 504531-02 | <50 | <250 | 113 |
| S-ESW01-A2-255 504531-03 | <50 | <250 | 100 |
| S-SSW01-A4-255 504531-04 | <50 | <250 | 114 |
| S-ESW01-A1-255 504531-05 | <50 | <250 | 100 |
| Method Blank 05-878 MB | <50 | <250 | 110 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/29/15

Project: SOU_0914-001-12_20150429, F&BI 504531

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 504528-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 84 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 95 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 96 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 93 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/04/15

Date Received: 04/29/15

Project: SOU_0914-001-12_20150429, F&BI 504531

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504531-05 (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 | <50 | 97 | 97 | 64-133 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 96 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

ME 4/29/15

DO3/vs

504531

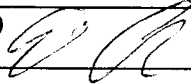
Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

| | |
|--|------|
| SAMPLERS (signature)  | |
| PROJECT NAME/NO. <u>0914-001-12</u> | PO # |
| REMARKS <u>(S&S A18)</u> <u>Standard TAI; Rush 1 Sample 24 hr</u> | |

Page # 1 of 1

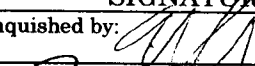
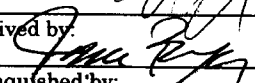
TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-PC1-A3-255 | A3 | 255 | 01A-F | 4/29/15 | 0945 | Soil | 6 | X | X | X | | | | | | | |
| S-ESW01 A3-255 | A3 | | 02 | | 1025 | | 6 | X | X | X | | | | | | | |
| S-ESW01 A2-255 | A2 | | 03 | | 1125 | | 6 | X | X | X | | | | | | | |
| S-SSW01 A4-255 | A4 | | 04 | | 1135 | | 6 | X | X | X | | | | | | | Rush 24 hr |
| S-ESW01 A1-255 | A1 | | 05 | | 1140 | | 6 | X | X | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Samples received at 20 15 °C

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 |
|--|----------------------|------------|----------------|-------------|
| Relinquished by:  | <u>Eric Friedman</u> | <u>SEI</u> | <u>4/29/15</u> | <u>1005</u> |
| Received by:  | <u>Jana Bruya</u> | <u>FRB</u> | <u>4/29</u> | <u>1205</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504542

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 5, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 29, 2015 from the SOU_0914-001_20150429, F&BI 504542 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0505R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 29, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001_20150429, F&BI 504542 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504542 -01 | S-NSW01-A1-255 |
| 504542 -02 | S-NSW01-B1-255 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/29/15

Project: SOU_0914-001_20150429, F&BI 504542

Date Extracted: 05/01/15

Date Analyzed: 05/01/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-NSW01-A1-255 504542-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |
| S-NSW01-B1-255 504542-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |
| Method Blank 05-0868 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/29/15

Project: SOU_0914-001_20150429, F&BI 504542

Date Extracted: 04/30/15

Date Analyzed: 04/30/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-NSW01-A1-255 504542-01 | <50 | <250 | 115 |
| S-NSW01-B1-255 504542-02 | <50 | <250 | 113 |
| Method Blank 05-883 MB | <50 | <250 | 111 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/29/15

Project: SOU_0914-001_20150429, F&BI 504542

**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: 505005-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 73 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 87 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 88 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/29/15

Project: SOU_0914-001_20150429, F&BI 504542

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504553-01 (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 | 13,000 | 23 b | 73 b | 64-133 | 104 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 94 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

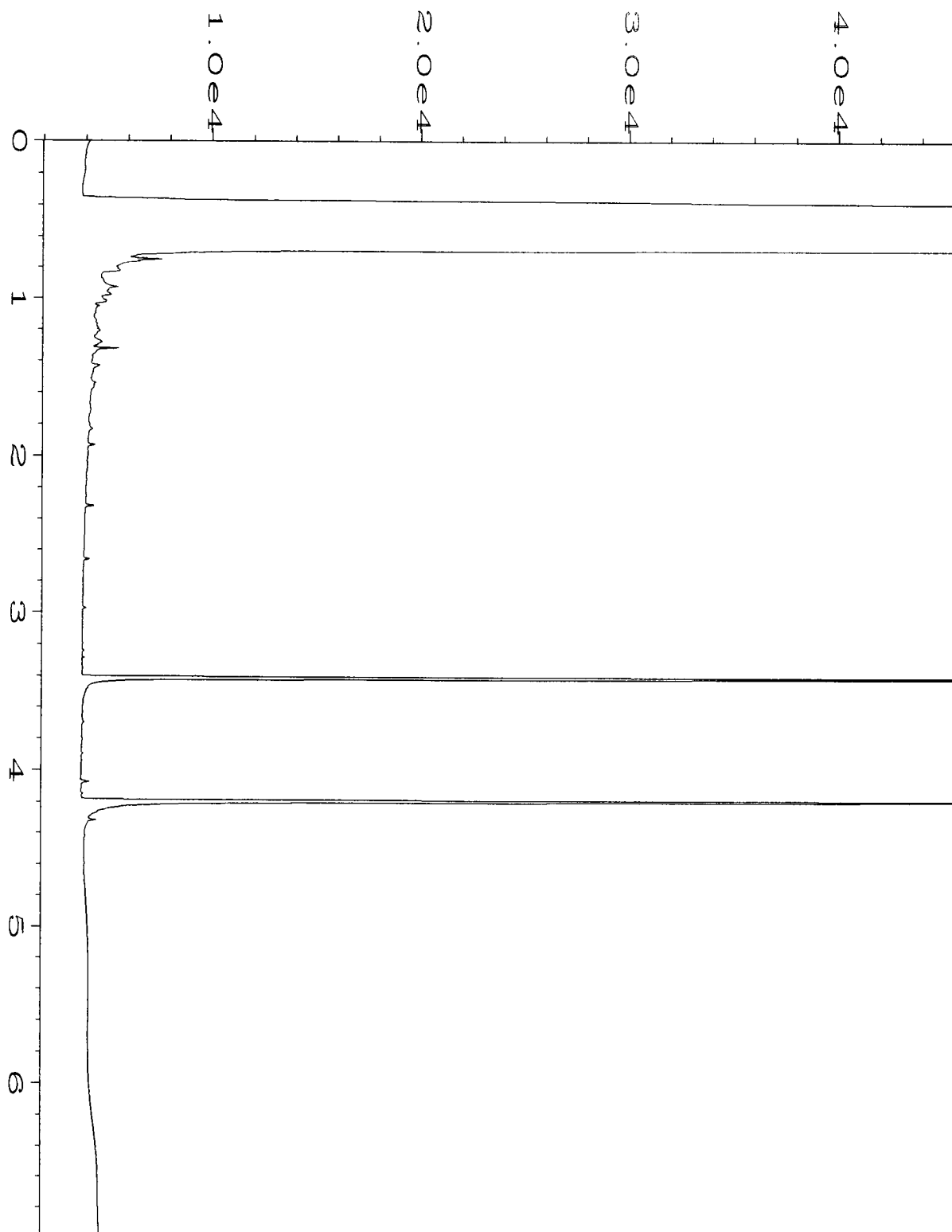
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

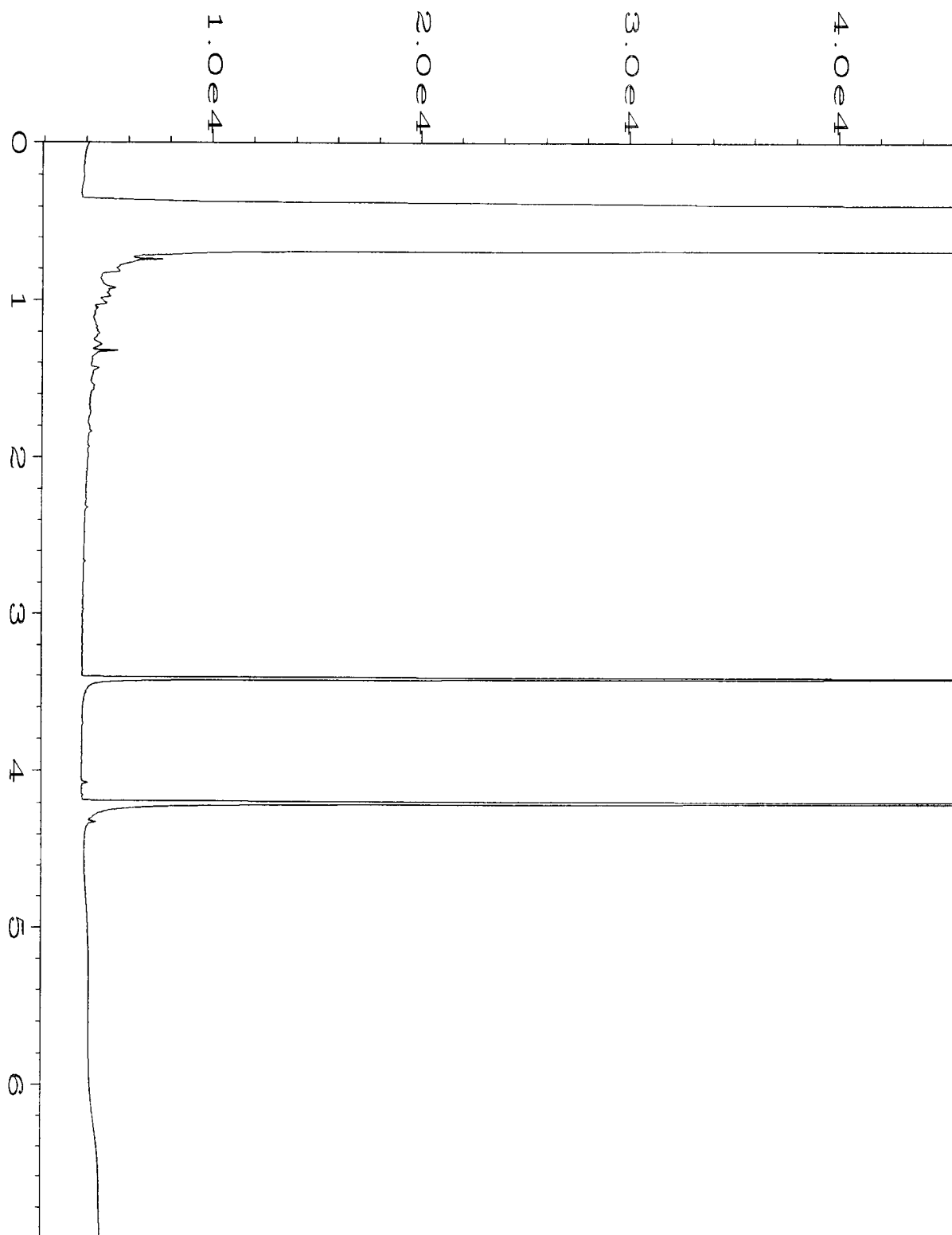
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

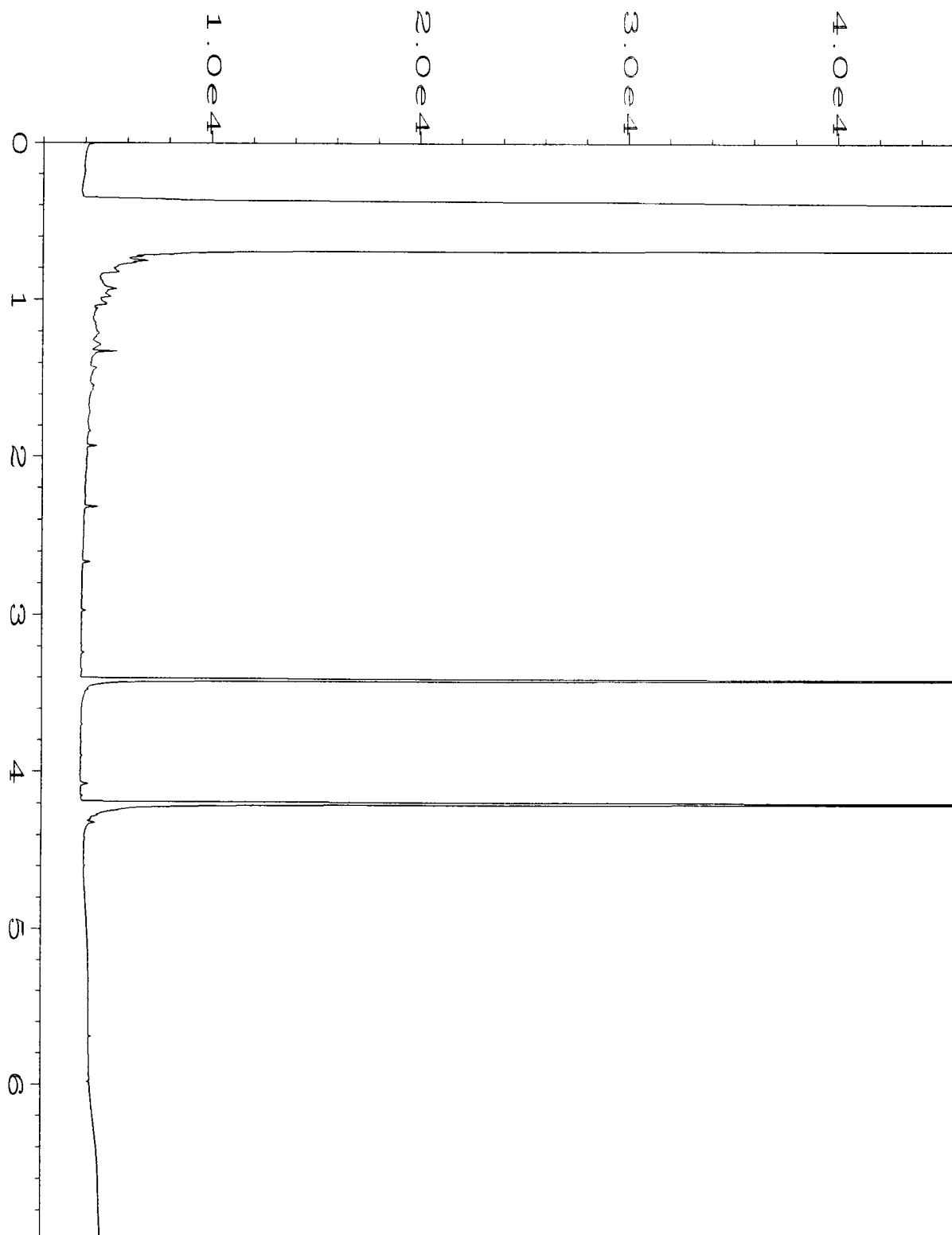
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



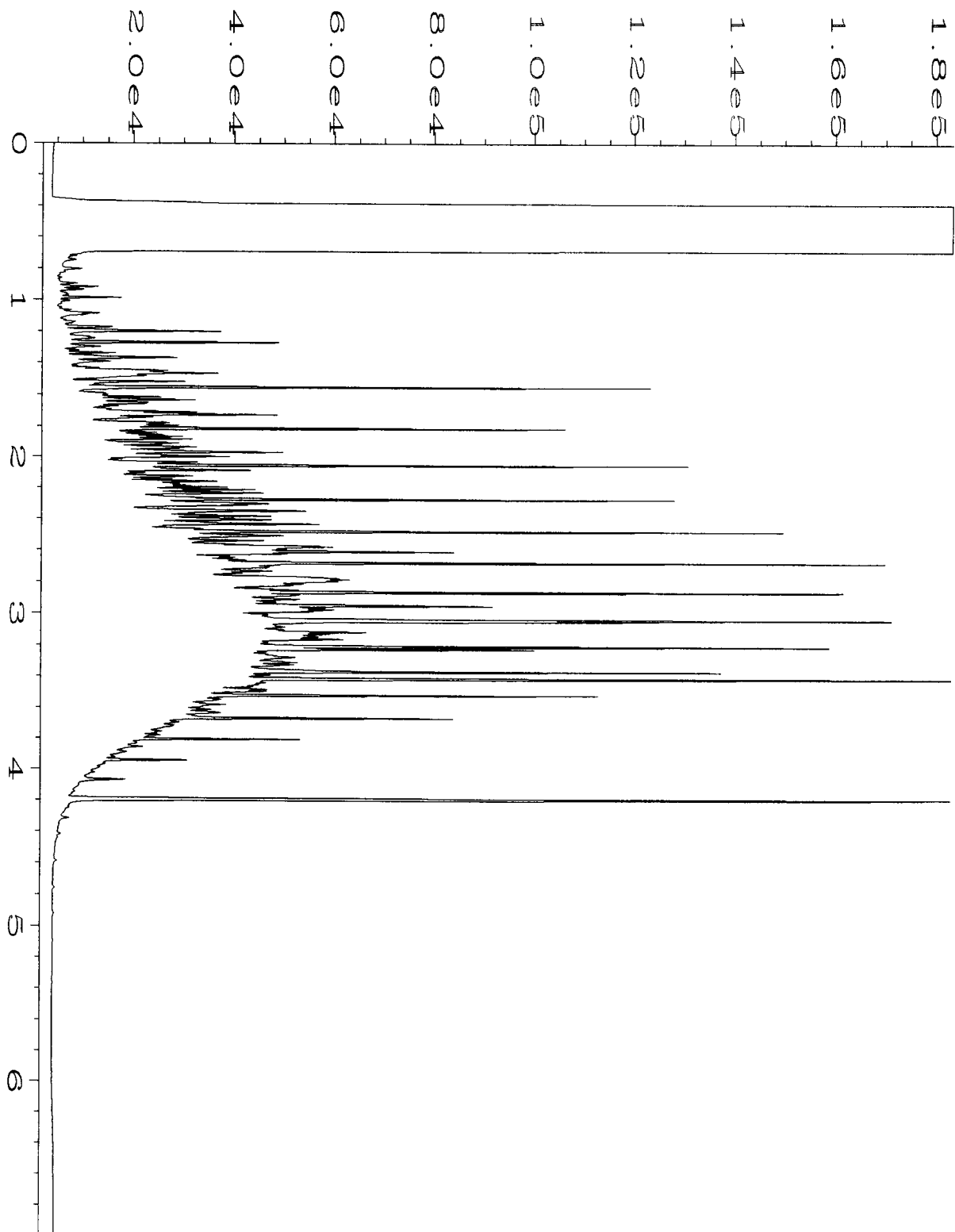
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-30-15\029F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 29 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504542-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 30 Apr 15 02:13 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 08:40 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-30-15\030F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 30 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 504542-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 30 Apr 15 02:24 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 08:40 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-30-15\011F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 11 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-883 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 30 Apr 15 10:59 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 08:40 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\04-30-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 30 Apr 15 09:06 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 08:40 AM | | |

504542

SAMPLE CHAIN OF CUSTODY

ME 04/29/15

1 usi / 1 DoI

Send Report To R. Roberts, S. Stumpf, E. Forbes, J. Cyr
 Company Sand Earth
 Address 2011 Fairview Ave E
 City, State, ZIP Seattle, WA
 Phone # 206-306-1900 Fax #

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. 0914-001 PO #
 REMARKS Standard

Page # _____ of _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | | | | | Notes | |
|----------------|--------|---------|------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|--|--|--|--|-------|--|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | | | | | |
| S-NSW01-A1-255 | 01 A F | 4/29/15 | 1225 | SOIL | 6 | X | X | X | | | | | | | | | |
| S-NSW01-B1-255 | 02 A F | I | 1250 | I | 6 | X | X | X | | | | | | | | | |
| CR | | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|-------------------|-------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Liz Forbes</u> | <u>SES</u> | <u>4/29/15</u> | <u>1555</u> |
| Received by: <u>[Signature]</u> | <u>Nhan Phan</u> | <u>FEAT</u> | <u>4/29/15</u> | <u>1535</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504574

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 5, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 30, 2015 from the SOU_0914-001-12_20150430, F&BI 504574 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0505R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 30, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150430, F&BI 504574 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504574 -01 | S-SSW02-C5-265 |
| 504574 -02 | S-ESW02-B4-264 |
| 504574 -03 | S-WSW02-C4-265 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/30/15

Project: SOU_0914-001-12_20150430, F&BI 504574

Date Extracted: 05/01/15

Date Analyzed: 05/01/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-ESW02-B4-264 504574-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| Method Blank 05-0868 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/30/15

Project: SOU_0914-001-12_20150430, F&BI 504574

Date Extracted: 05/01/15

Date Analyzed: 05/01/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-ESW02-B4-264 504574-02 | 130 x | 600 | 93 |
| Method Blank 05-891 MB | <50 | <250 | 104 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/30/15

Project: SOU_0914-001-12_20150430, F&BI 504574

**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: 505005-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 73 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 87 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 88 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 04/30/15

Project: SOU_0914-001-12_20150430, F&BI 504574

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505003-01 (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 | <50 | 112 | 111 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

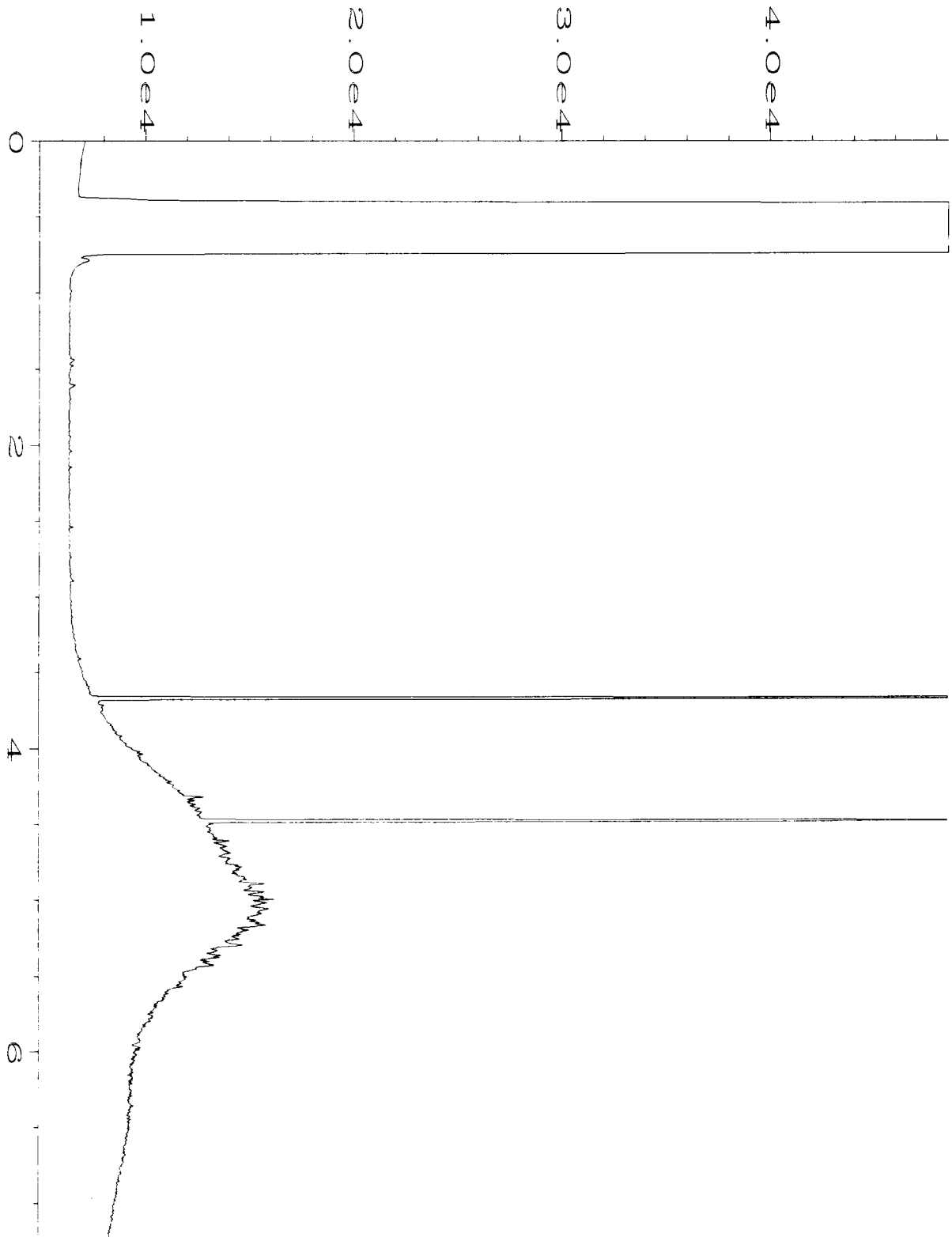
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 103 | 79-144 |

FRIEDMAN & BRUYA, INC.

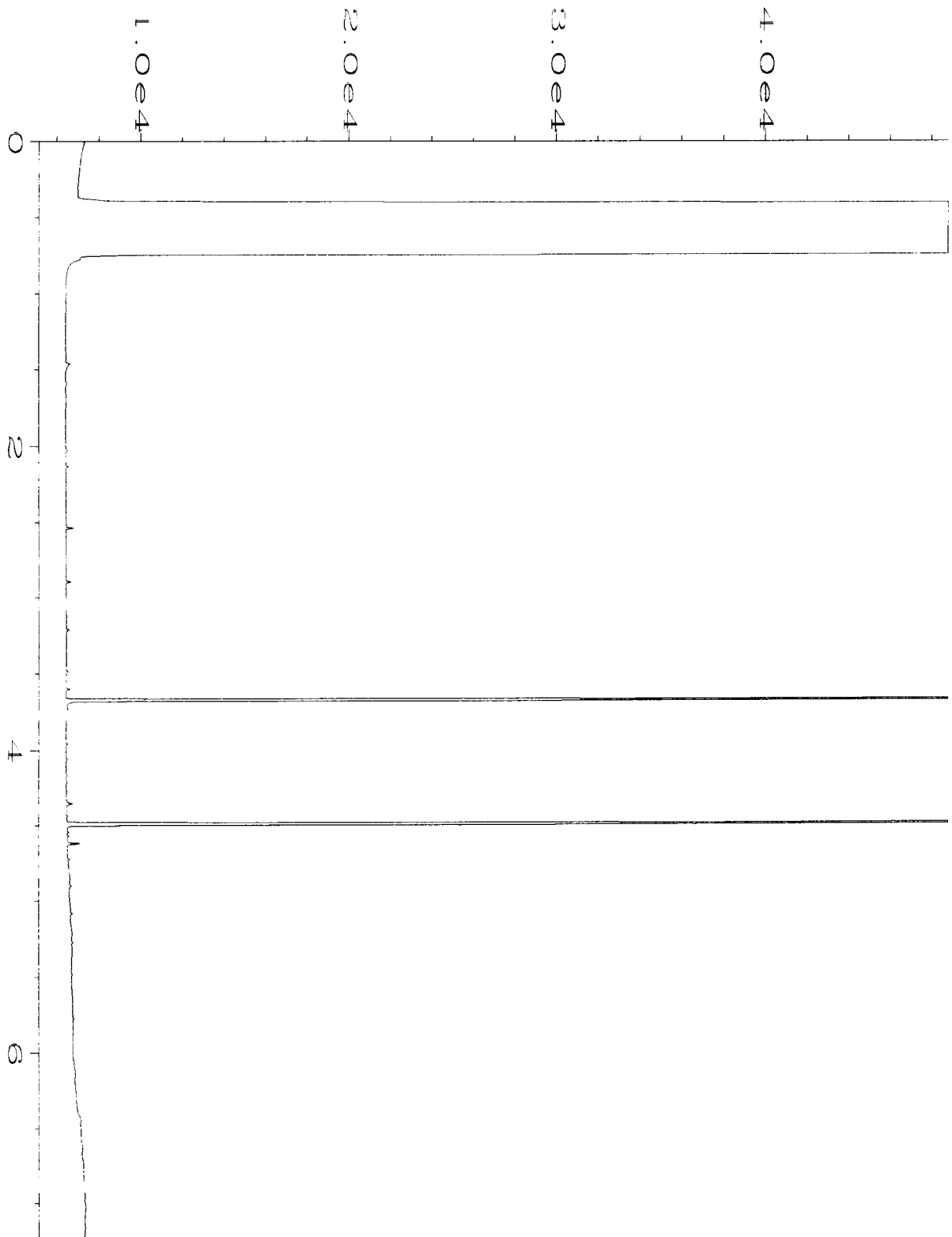
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

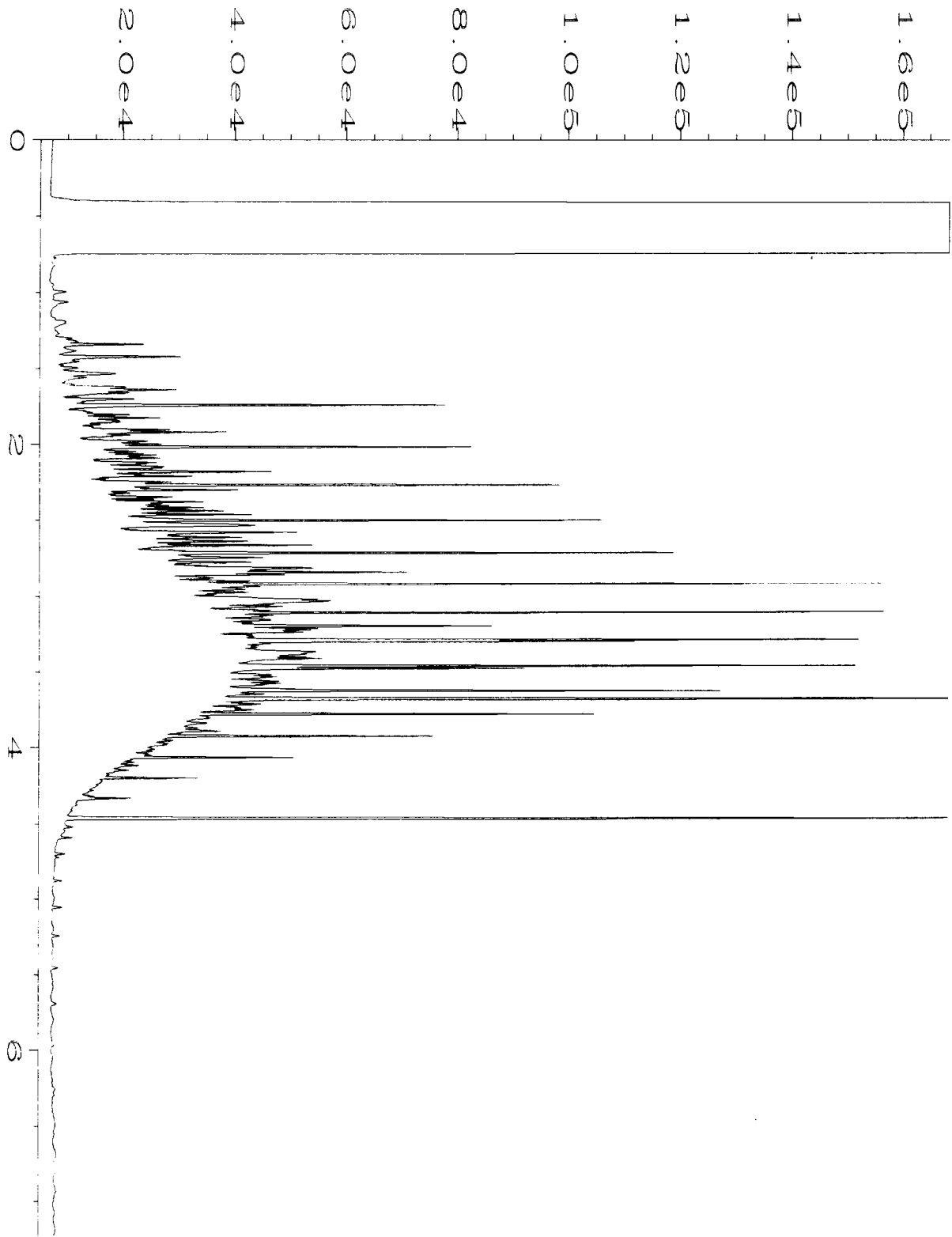
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\016F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 16 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504574-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 11:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 12:27 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\007F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 7 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-891 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 10:11 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 12:27 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 09:12 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 12:27 PM | | |

504574

SAMPLE CHAIN OF CUSTODY

ME 04/30/15

VS2/DO

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. 0994 001-12 PO #
 REMARKS 211 h

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|-------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 8267OSIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-SSWOL 05 465 | C5 | 925 | 01A | 4/24/15 | 0745 | SOC | 6 | X | X | X | | | | | | | Hold per LF |
| S-BWOL 04 464 | B4 | 207 | 02 | | 0745 | I | 6 | X | X | X | | | | | | | Run per LF |
| S-WSWOL 04 462 | C4 | 208 | 03 | | 0745 | I | 6 | | | | | | | | | | fr. 10 |
| | | | | | | | | | | | | | | | | | |
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Samples received at 5 °C

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 |
|-------------------------------------|--------------------|-------------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Eric Forbes</u> | <u>SoundEarth</u> | <u>4/24/15</u> | <u>1600</u> |
| Received by: <u>[Signature]</u> | <u>Eric Forbes</u> | <u>F&B</u> | <u>4/30/15</u> | <u>1500</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #505009

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 5, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 1, 2015 from the SOU_0914-001_20150501, F&BI 505009 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0505R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 1, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001_20150501, F&BI 505009 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
505009 -01

SoundEarth Strategies
S-B01-B5-261

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 05/01/15

Project: SOU_0914-001_20150501, F&BI 505009

Date Extracted: 05/01/15

Date Analyzed: 05/01/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-B5-261 505009-01 | <0.02 | <0.02 | 1.0 | 1.7 | 1,100 | 113 |
| Method Blank 05-0868 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 05/01/15

Project: SOU_0914-001_20150501, F&BI 505009

Date Extracted: 05/01/15

Date Analyzed: 05/01/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-B01-B5-261 505009-01 | 3,600 | <250 | 107 |
| Method Blank 05-891 MB | <50 | <250 | 104 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 05/01/15

Project: SOU_0914-001_20150501, F&BI 505009

**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: 505005-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 73 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 87 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 88 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/15

Date Received: 05/01/15

Project: SOU_0914-001_20150501, F&BI 505009

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505003-01 (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 | <50 | 112 | 111 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 103 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

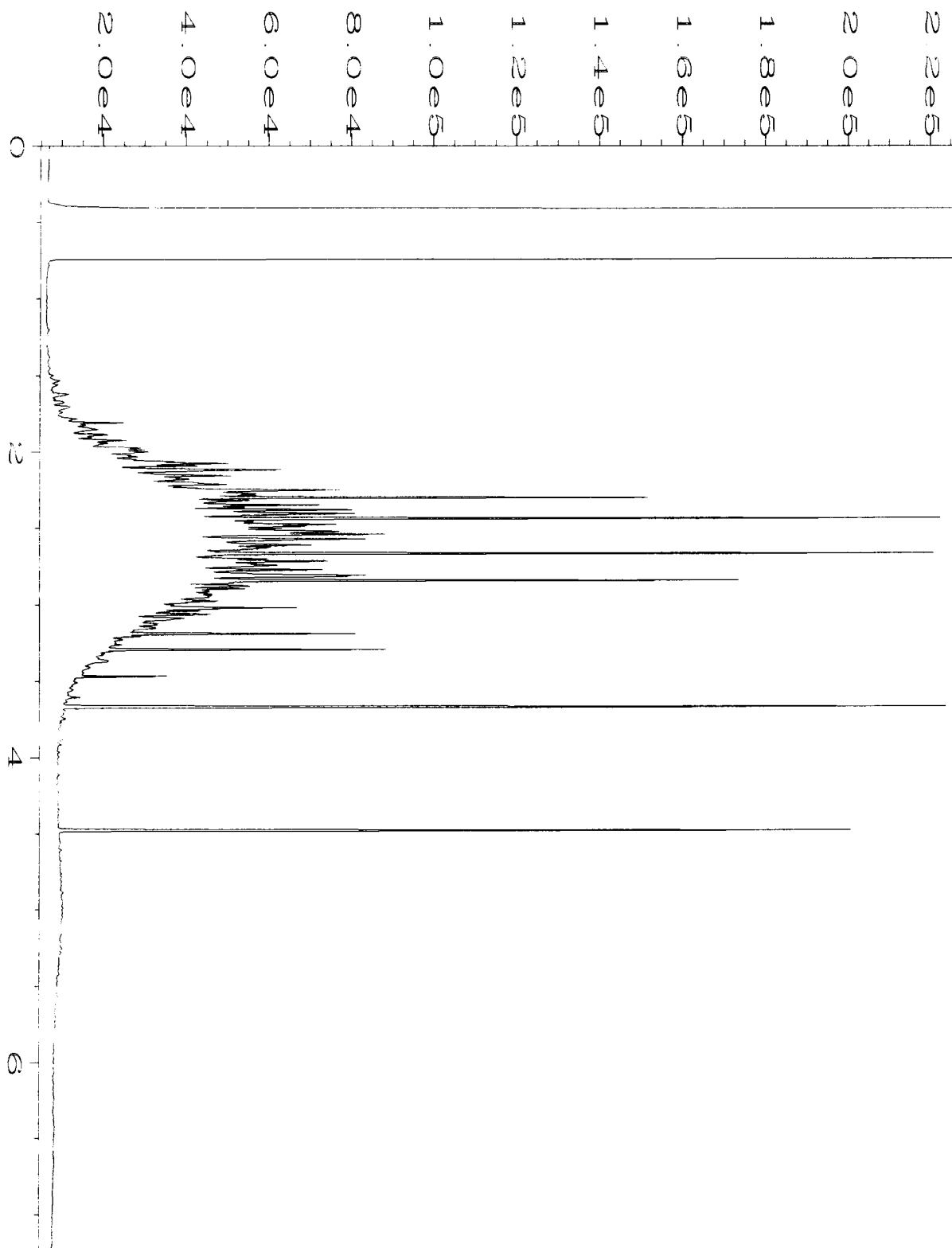
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

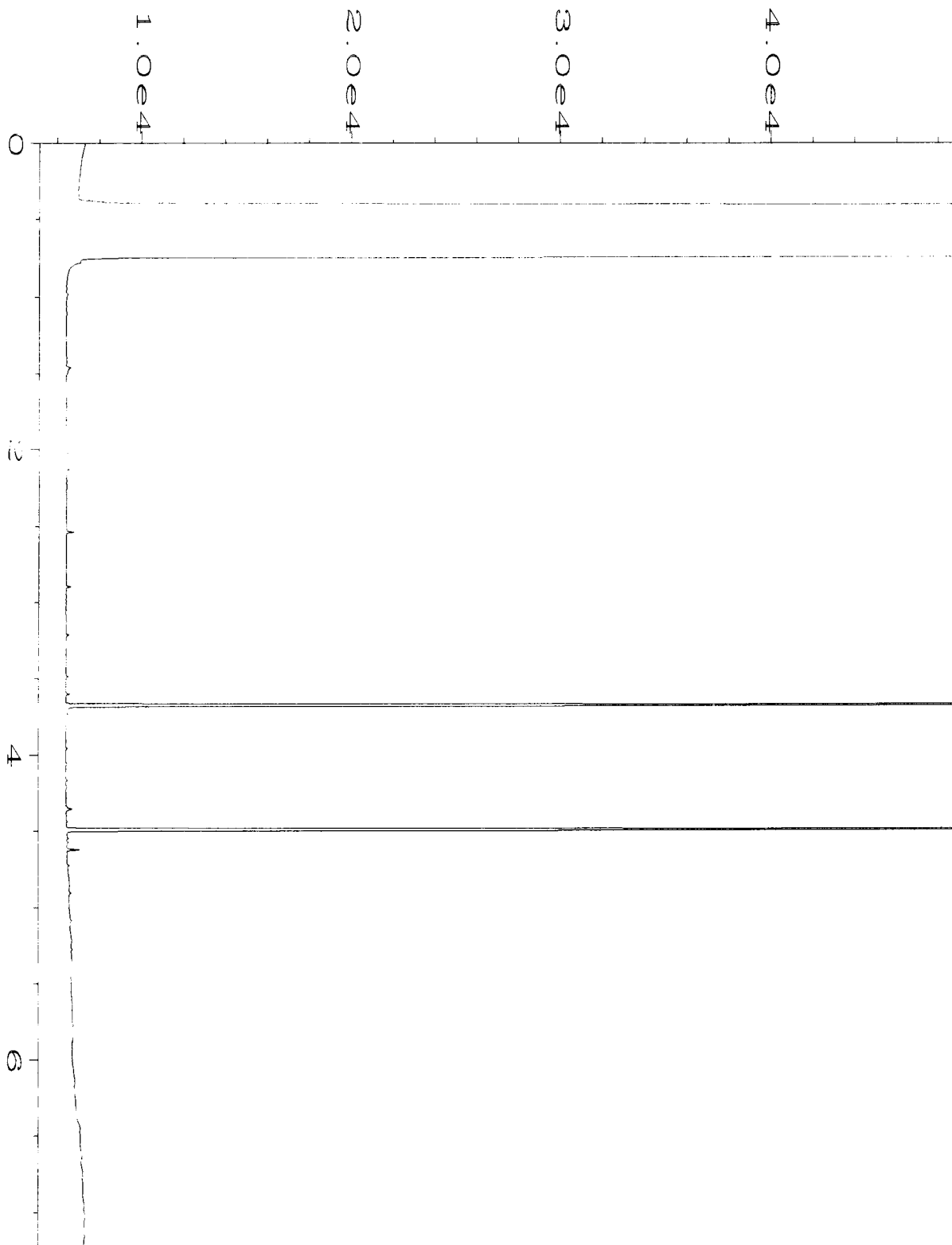
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

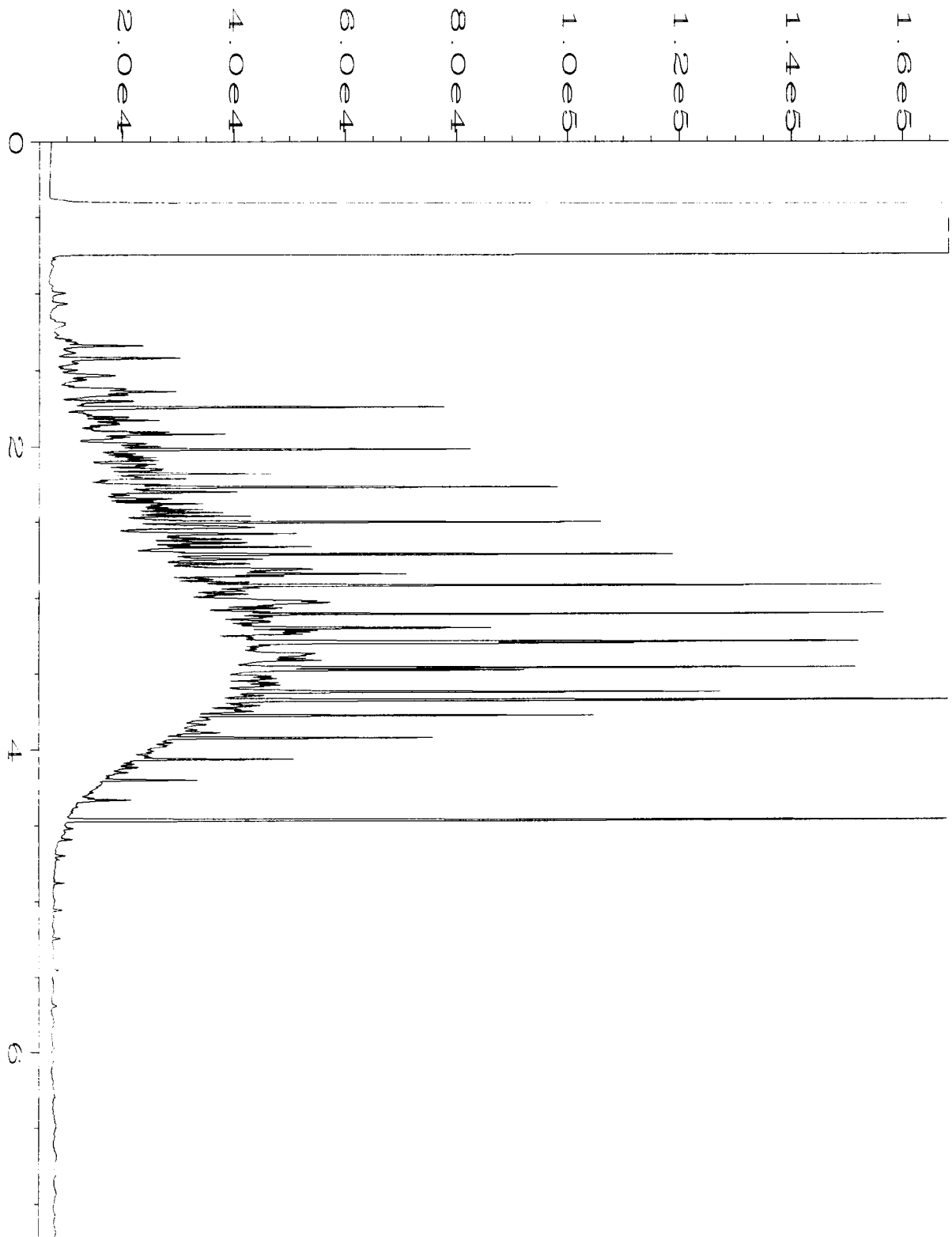
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\017F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 17 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505009-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 11:59 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 01:21 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\007F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 7 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-891 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 10:11 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 01:20 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-01-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 May 15 09:12 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 May 15 01:20 PM | | |

SAMPLE CHAIN OF CUSTODY

MC 5/11/15 EO4/VS2

505009

Send Report to R. Roberts, B. Stumpf, E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) _____
 PROJECT NAME/NO. 0014-001 PO # _____
 REMARKS End of day

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|-----------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|-------------------------------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-PH-161 | PH | 201 | 0A-R | 5/11/15 | 0415 | SOIL | 2 | X | | X | | | | | | | How Please 1 jar for forensic |
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Samples received at 10 °C

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 |
|------------------------|-------------|---------|---------|-------|
| Relinquished by: _____ | _____ | SEI | 5/11/15 | 12:15 |
| Received by: _____ | James Bruya | F&B | 5/11 | 10:15 |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

Friedman & Bruya, Inc. #505034 and additional

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 6, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 4, 2015 from the SOU_0914-001-12_20150504, F&BI 505034 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0506R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 4, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150504, F&BI 505034 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505034 -01 | S-NSW01-C4-255 |
| 505034 -02 | S-SSW01-C5-255 |
| 505034 -03 | S-WSW01-C5-254 |
| 505034 -04 | S-B01-C5-252 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/15

Date Received: 05/04/15

Project: SOU_0914-001-12_20150504, F&BI 505034

Date Extracted: 05/04/15

Date Analyzed: 05/04/15

**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 50-132) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-NSW01-C4-255 505034-01 1/5 | <0.02 j | <0.1 | 0.75 | 0.50 | 1,000 | 94 |
| S-SSW01-C5-255 505034-02 | <0.02 | <0.02 | <0.02 | <0.06 | 3.6 | 88 |
| S-WSW01-C5-254 505034-03 | <0.02 | <0.02 | 0.13 | 0.12 | 220 | 95 |
| S-B01-C5-252 505034-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| Method Blank 05-0871 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/15

Date Received: 05/04/15

Project: SOU_0914-001-12_20150504, F&BI 505034

Date Extracted: 05/04/15

Date Analyzed: 05/04/15

**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> (% Recovery) (Limit 56-165) |
|-----------------------------------|--|---|--|
| S-NSW01-C4-255 505034-01 | 3,400 | 780 | 108 |
| S-SSW01-C5-255 505034-02 | <50 | <250 | 107 |
| S-WSW01-C5-254 505034-03 | 700 | <250 | 109 |
| S-B01-C5-252 505034-04 | <50 | <250 | 97 |
| Method Blank 05-896 MB | <50 | <250 | 109 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/15

Date Received: 05/04/15

Project: SOU_0914-001-12_20150504, F&BI 505034

**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: 505035-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 79 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/15

Date Received: 05/04/15

Project: SOU_0914-001-12_20150504, F&BI 505034

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505035-06 (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 | <50 | 111 | 110 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 110 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

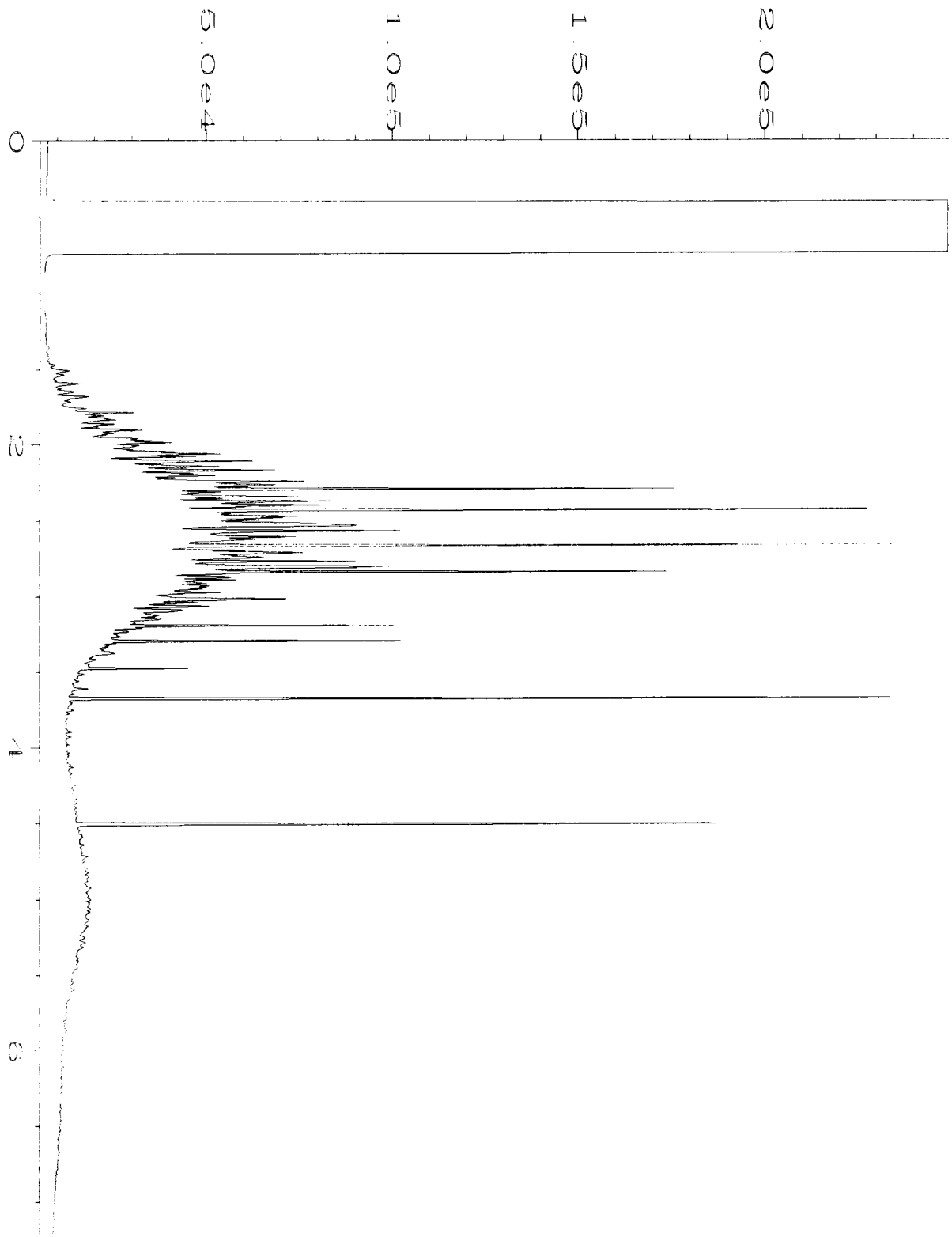
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

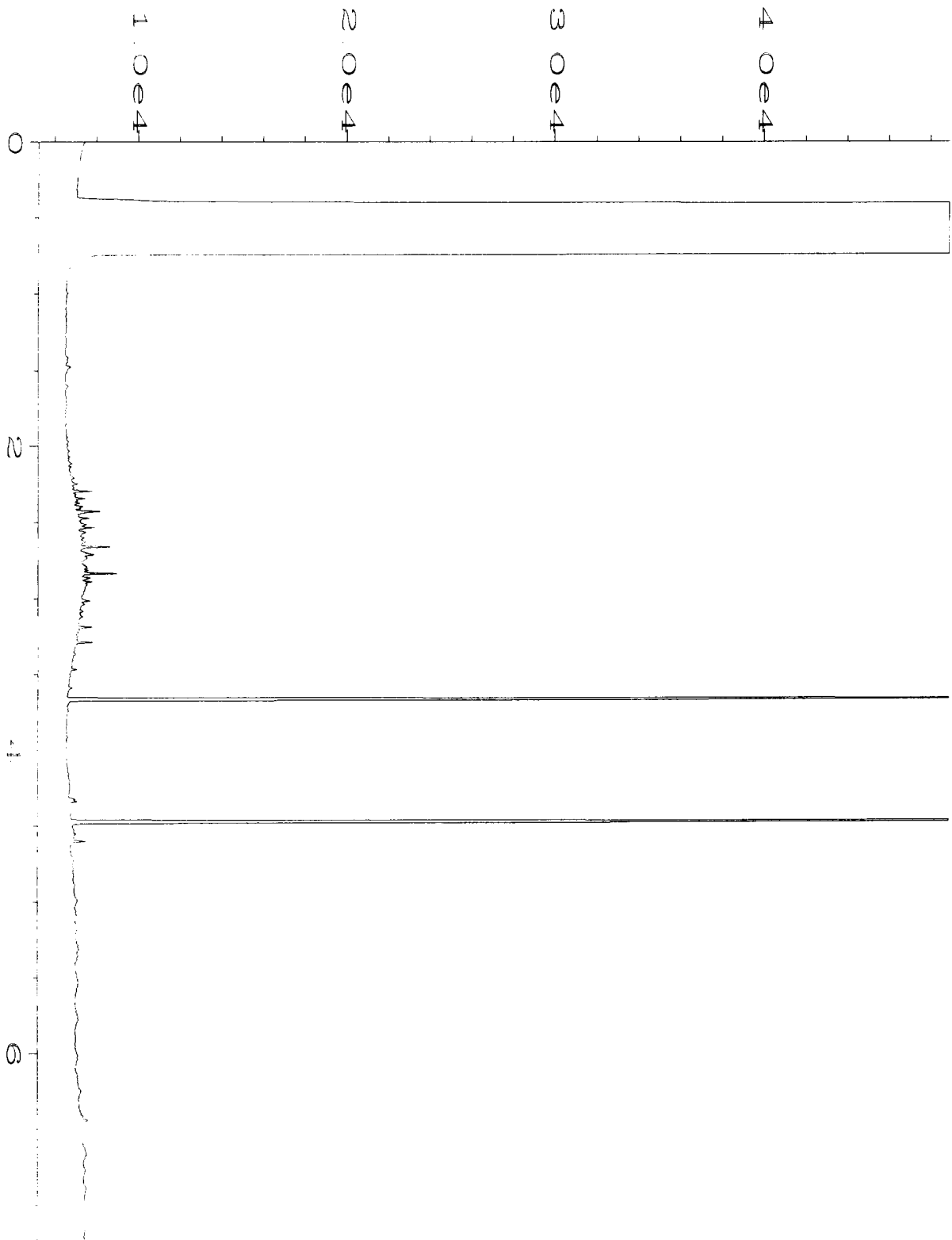
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

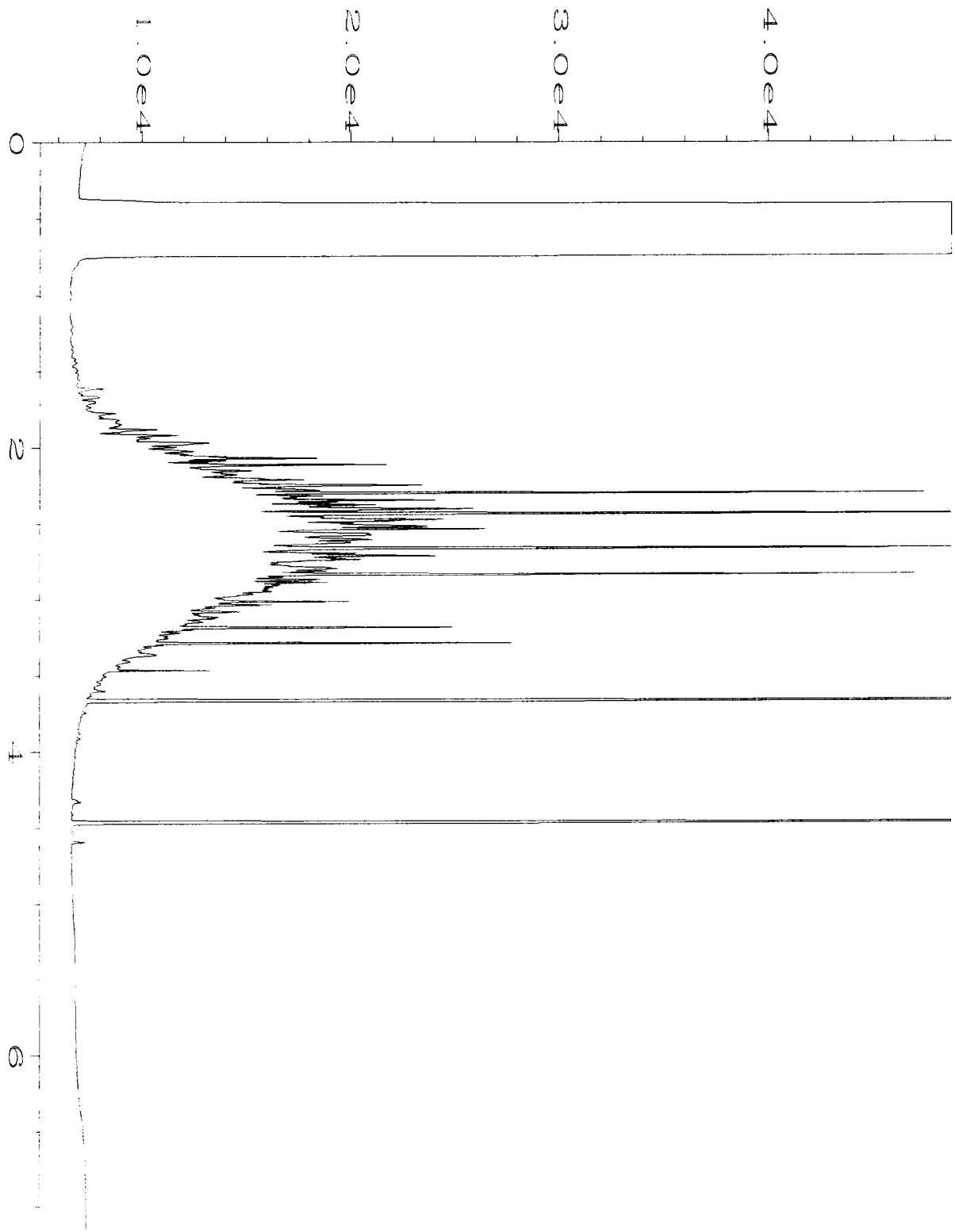
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



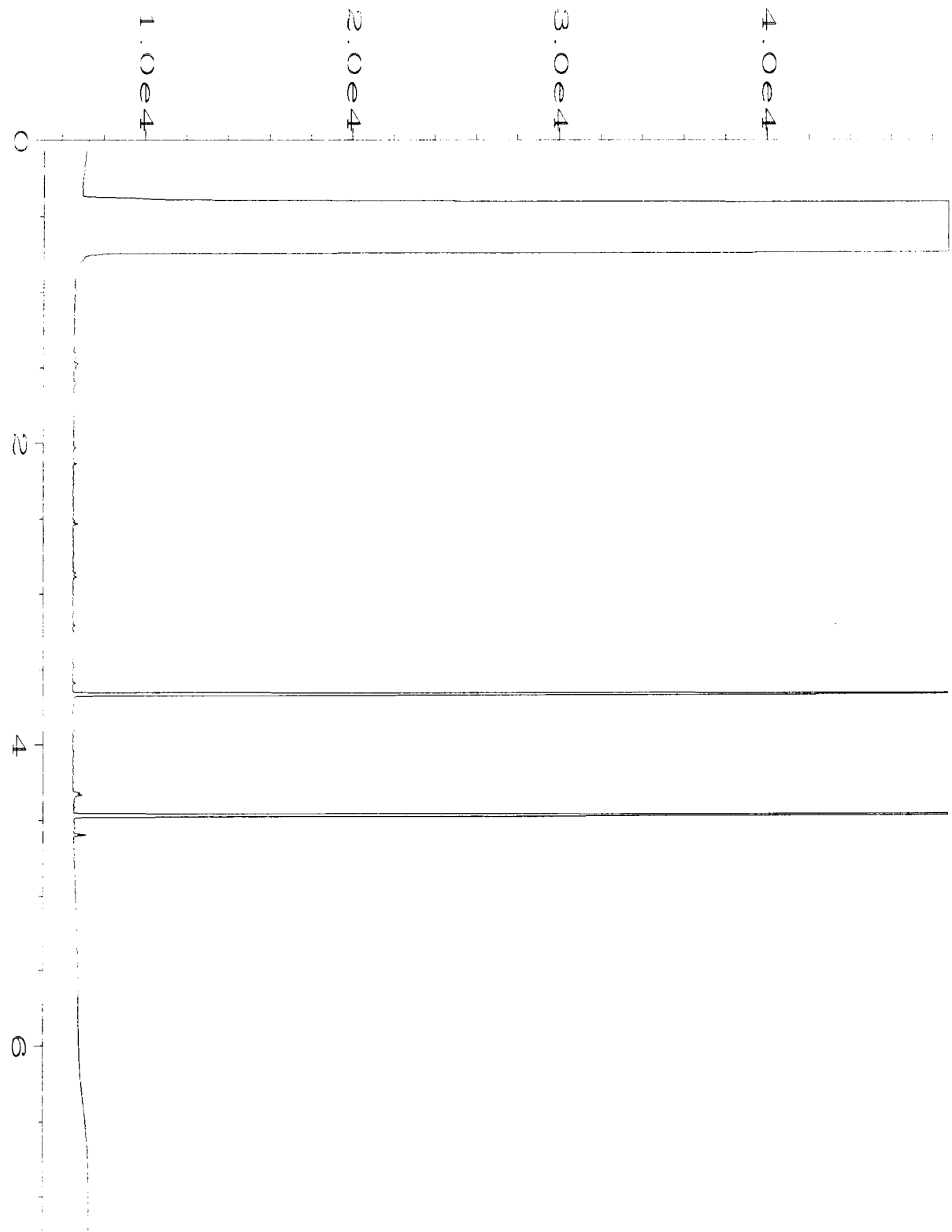
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\020F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 20 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-01 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:03 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



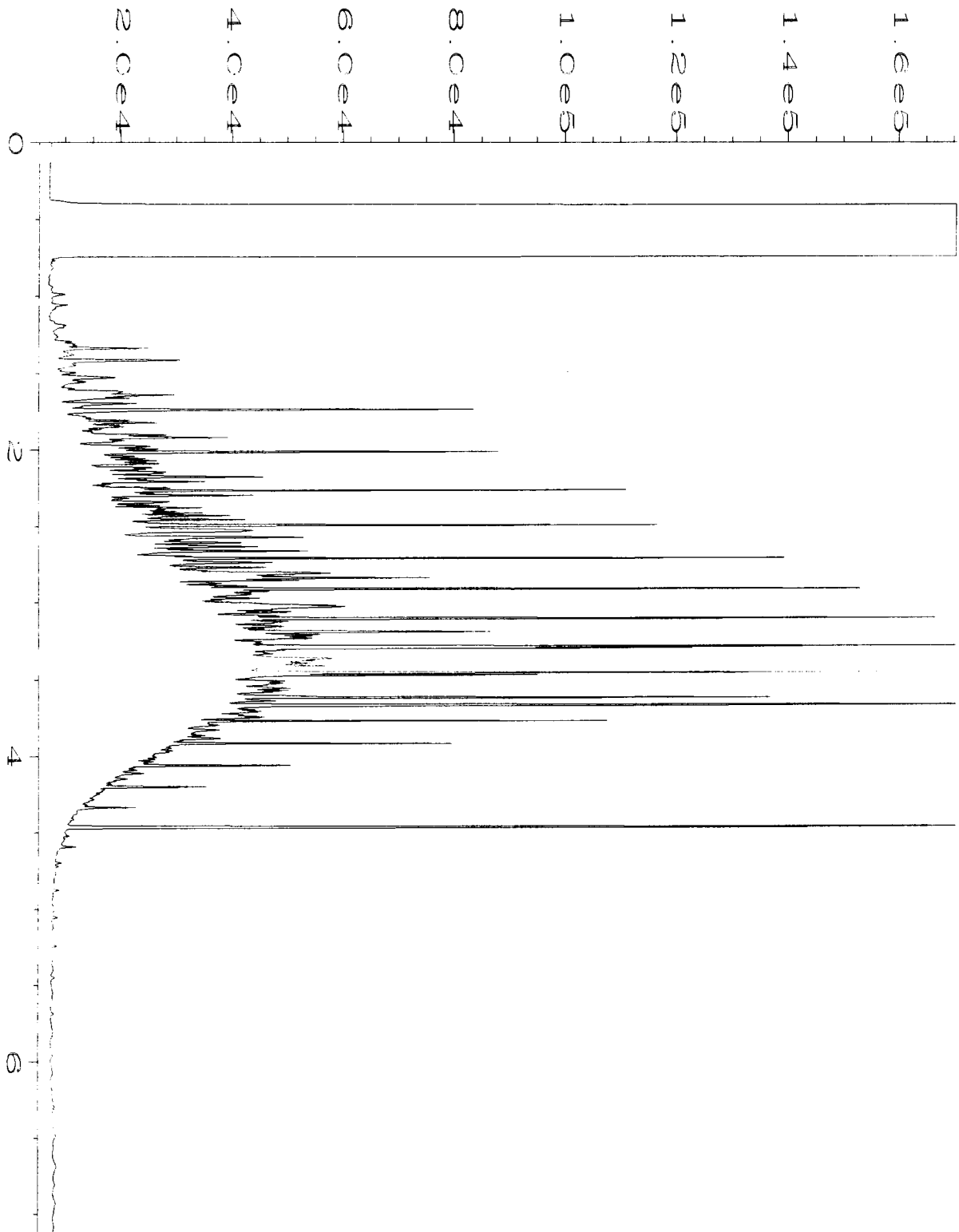
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\021F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 21 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-02 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:12 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



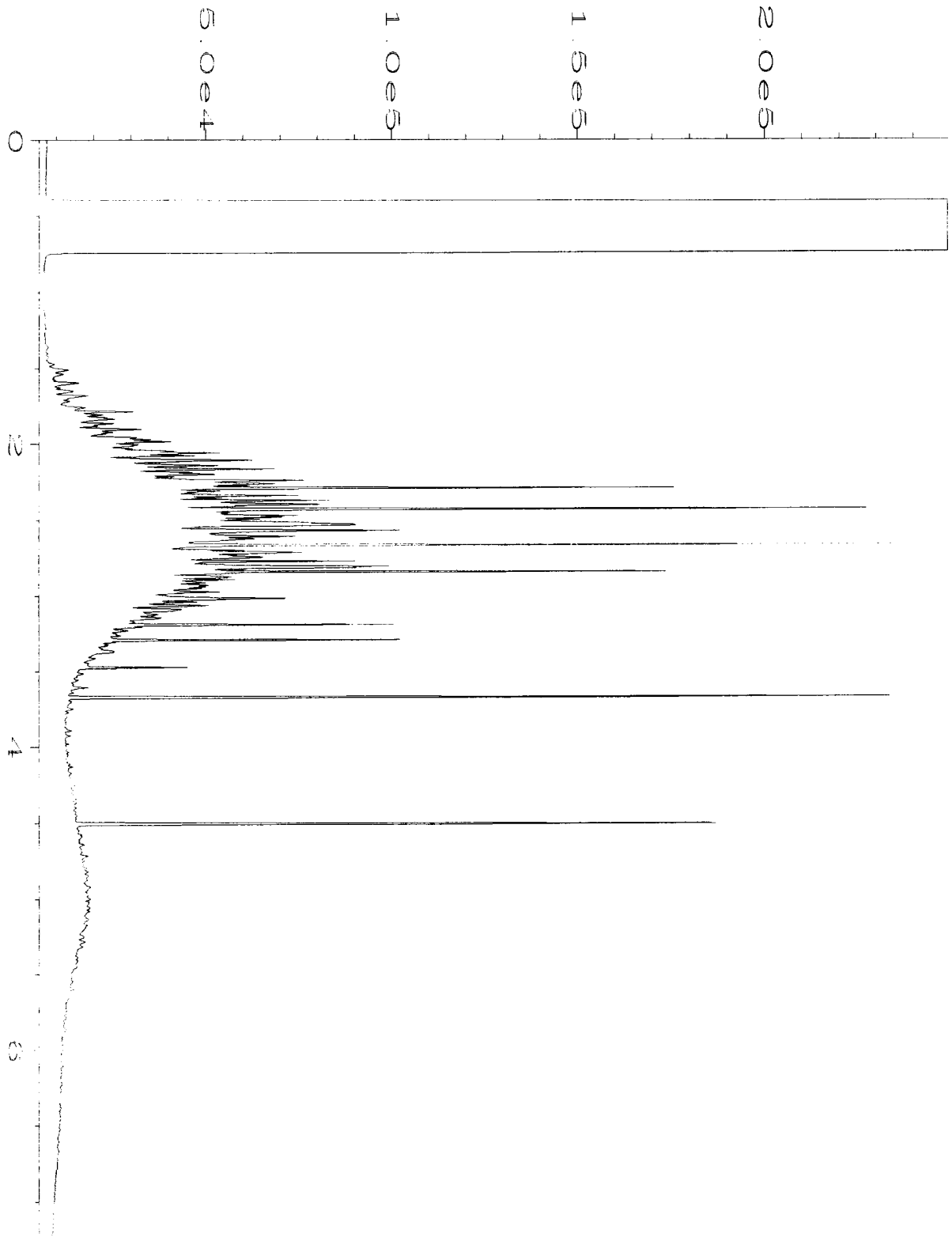
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\022F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 22 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-03 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:23 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



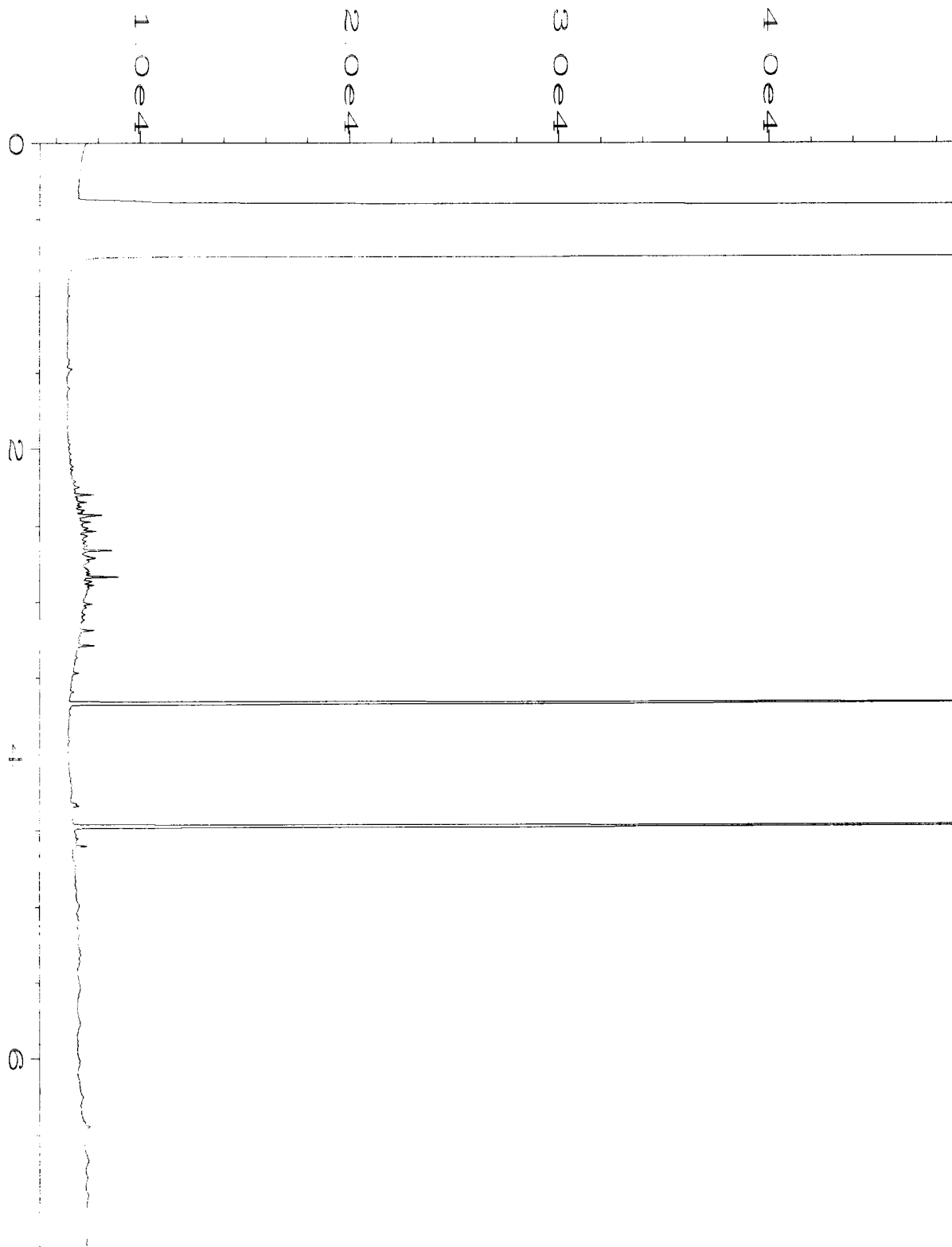
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|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\023F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 23 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-04 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:34 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



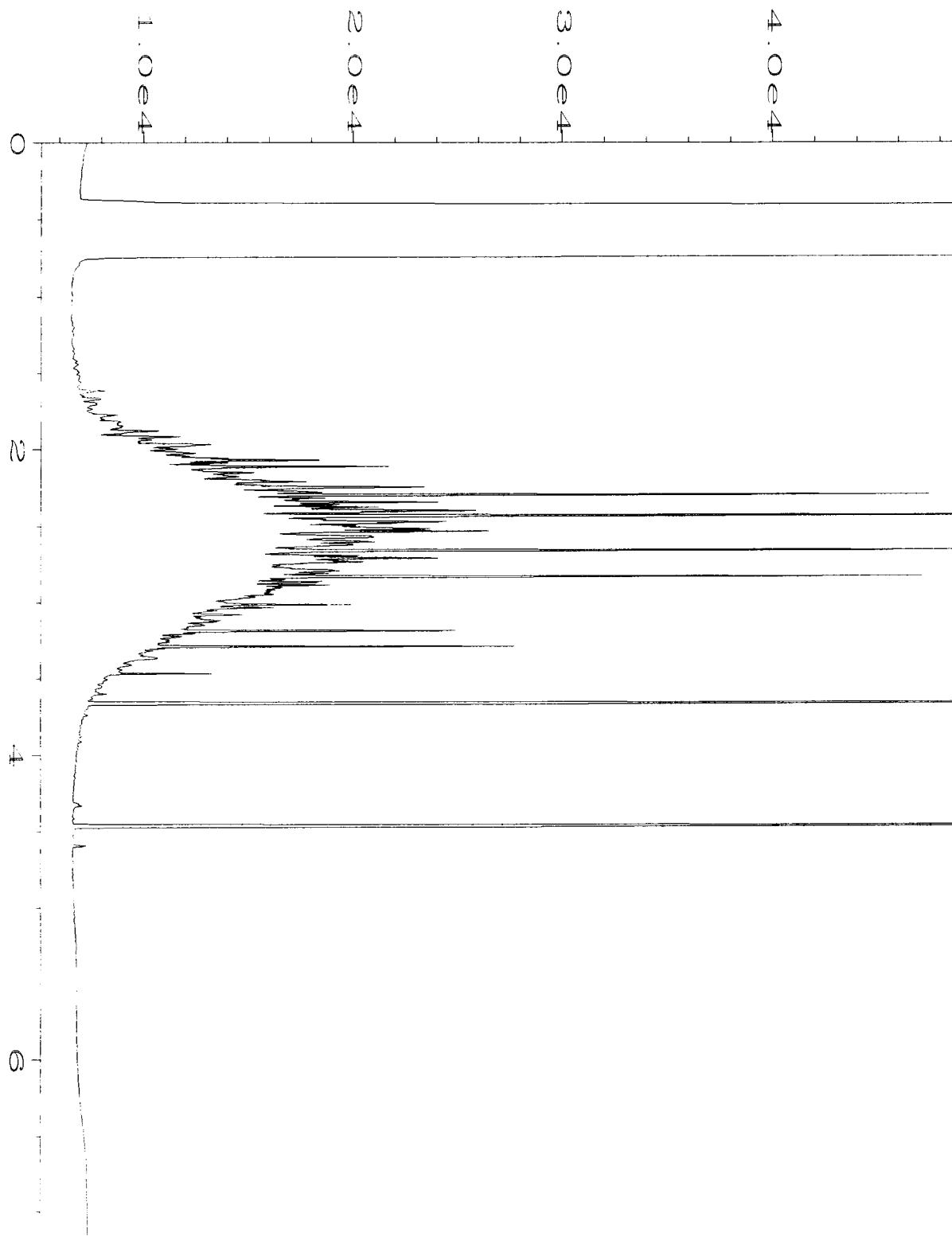
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| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 08:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\020F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 20 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-01 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:03 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |

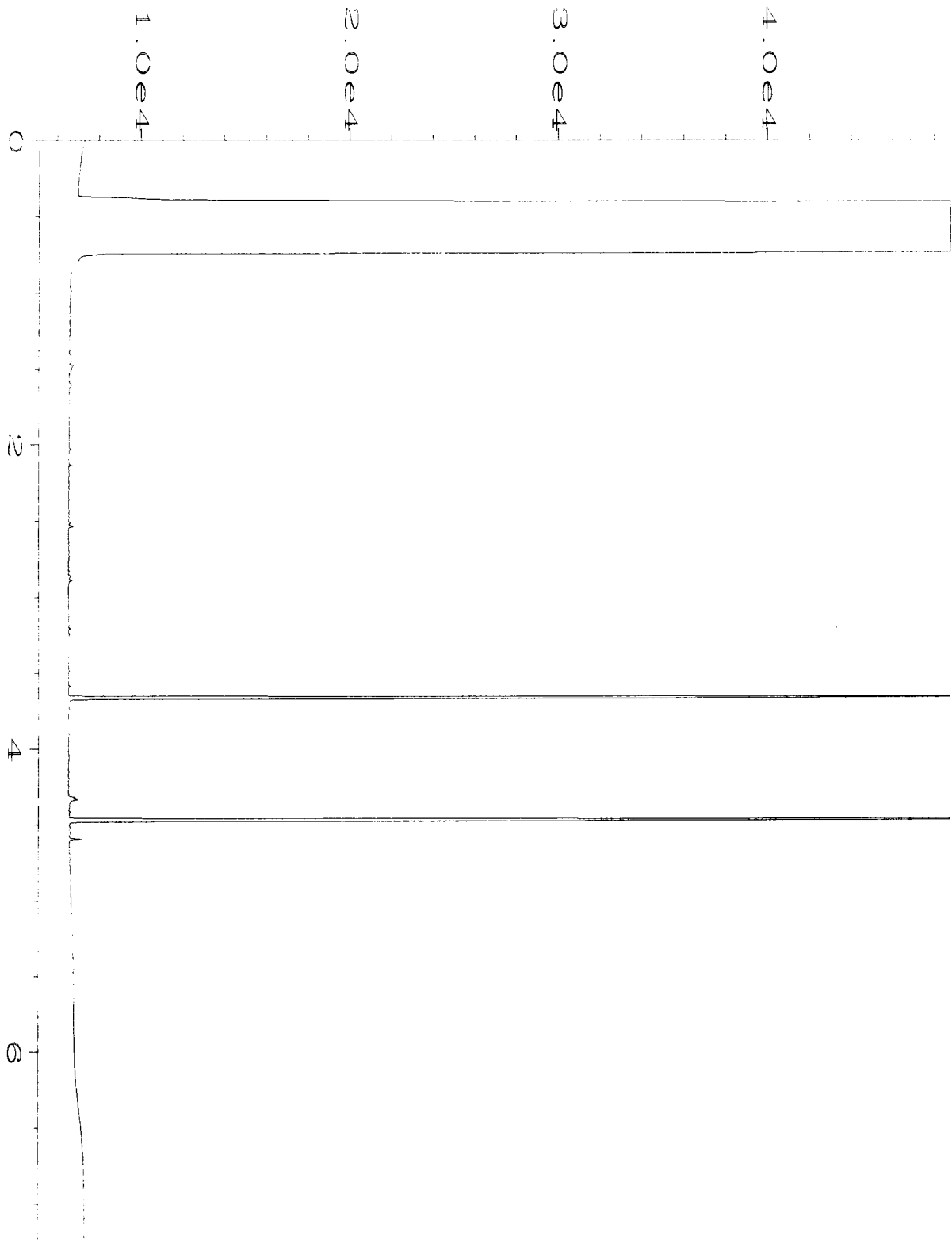


Data File Name : C:\HPCHEM\1\DATA\05-04-15\021F0401.D
Operator : mwdl Page Number : 1
Instrument : GC1 Vial Number : 21
Sample Name : 505034-02 Injection Number : 1
Run Time Bar Code: Sequence Line : 4
Acquired on : 04 May 15 02:12 PM Instrument Method: DX.MTH
Report Created on: 04 May 15 03:04 PM Analysis Method : DX.MTH

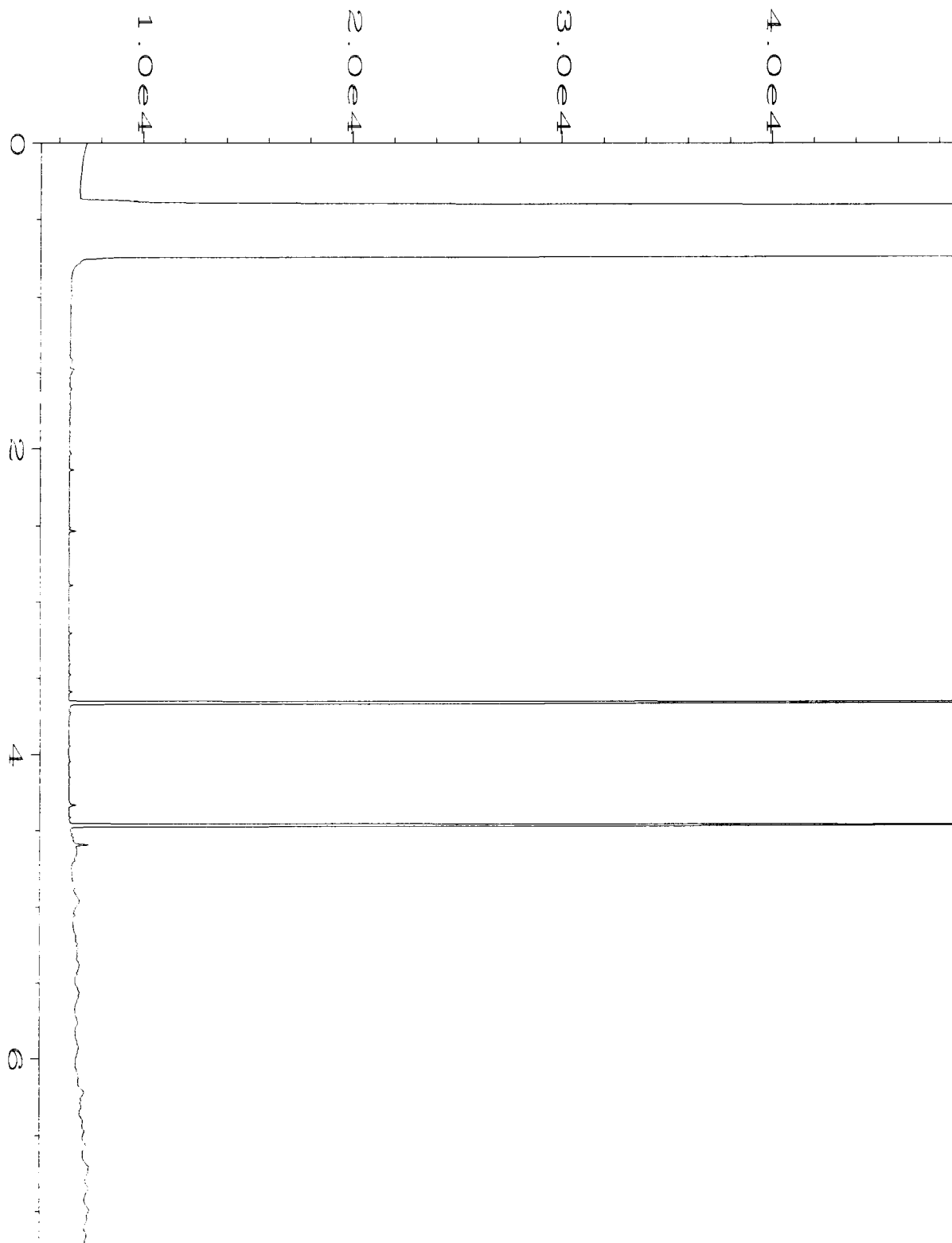


| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\022F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 22 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-03 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 02:23 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |

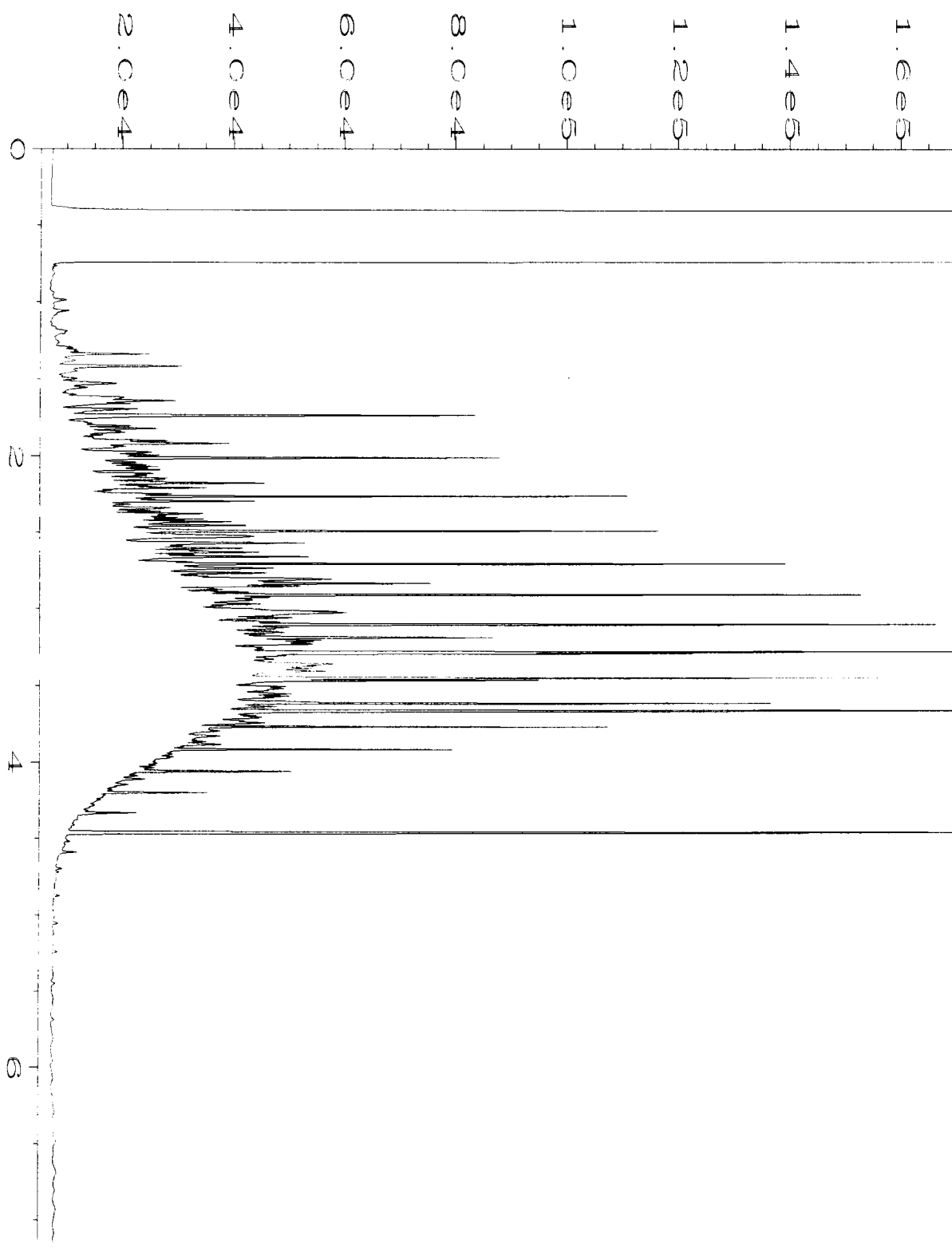
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| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\023F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 23 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505034-04 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 04 May 15 02:34 PM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\024F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 24 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-896 mb | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 04 May 15 03:07 PM | Analysis Method | : DX.MTH |
| Report Created on: | 05 May 15 08:35 AM | | |



| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-04-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 04 May 15 08:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 04 May 15 03:04 PM | | |

505034

SAMPLE CHA OF CUSTODY

ME 5/4/15

EO3
V52

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) 

PROJECT NAME/NO.

0914-00112

PO #

REMARKS

ASAP RUSH

Page # 1 of 1

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

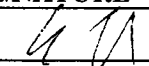

Return samples

Will call with instructions

| Sample ID | Sample Location | Sample Depth <i>20' max</i> | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|-----------------|-----------------|--------------------------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 8267OSIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-NW01-C4-255 | C4 | 255 | 01AF | 5/4/15 | 1120 | Soil | 6 | X | X | X | | | | | | |
| S-SW01-C5-255 | C5 | 255 | 02 | | 1120 | | 6 | X | X | X | | | | | | |
| S-W-SW01-C5-254 | C5 | 254 | 03 | | 1155 | | 6 | X | X | X | | | | | | |
| S-P01-C5-252 | C5 | 252 | 04 | | 1010 | | 0 | X | X | X | | | | | | |
| | | | | | | | | | | | | | | | | |

Samples received at 5 °C

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 |
|--|------------|---------|--------|------|
| Relinquished by:  | Liz Finkel | SET | 5/4/15 | 1310 |
| Received by:  | Ann Lystra | FBI | 5/4/15 | 1310 |
| Relinquished by: | | | | |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 9, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the additional results from the testing of material submitted on May 4, 2015 from the SOU_0914-001-12_20150504, F&BI 505034 project. There is 1 page 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0609R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

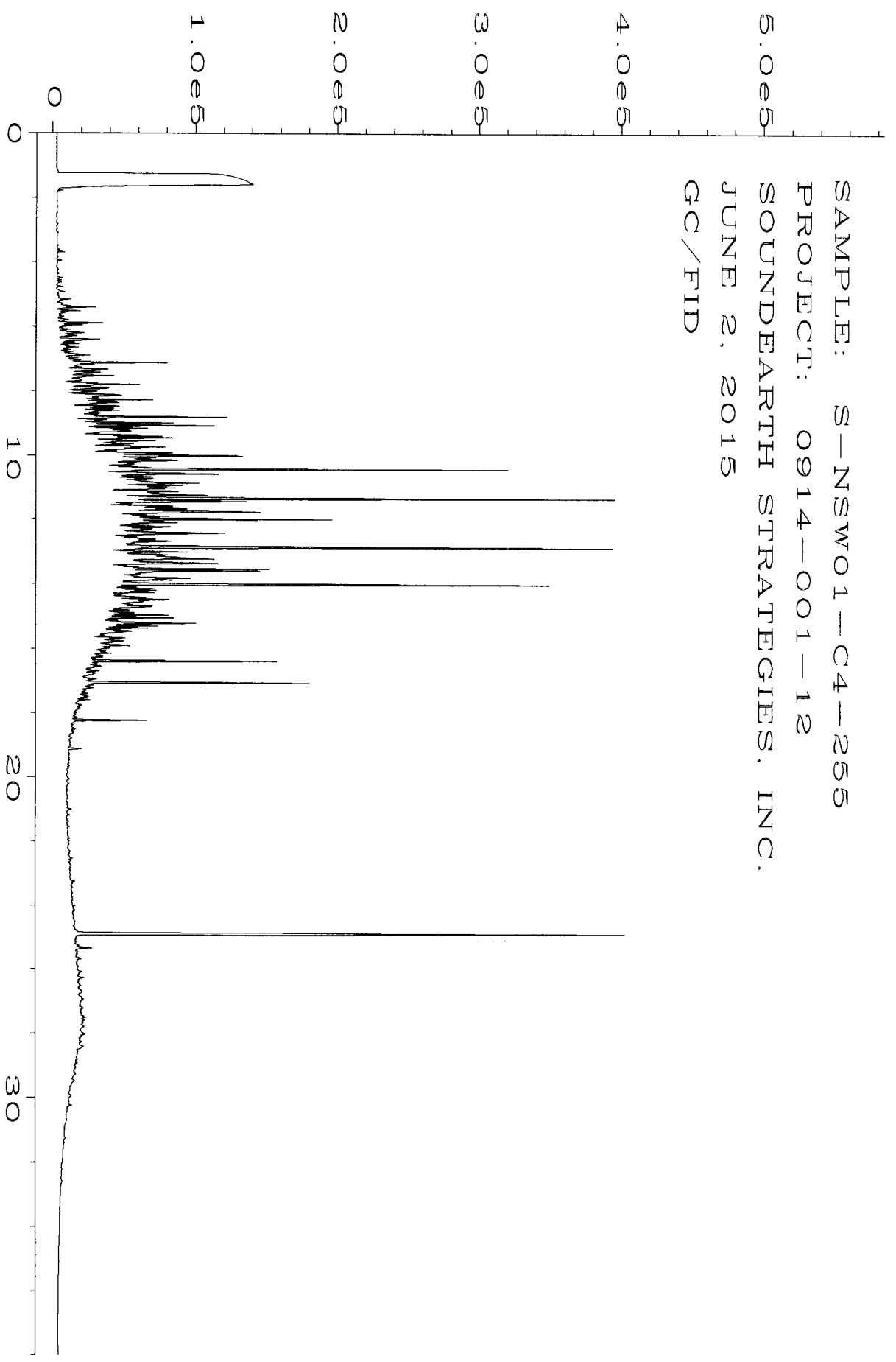
CASE NARRATIVE

This case narrative encompasses samples received on May 4, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150504, F&BI 505034 project. Samples were logged in under the laboratory ID's listed below.

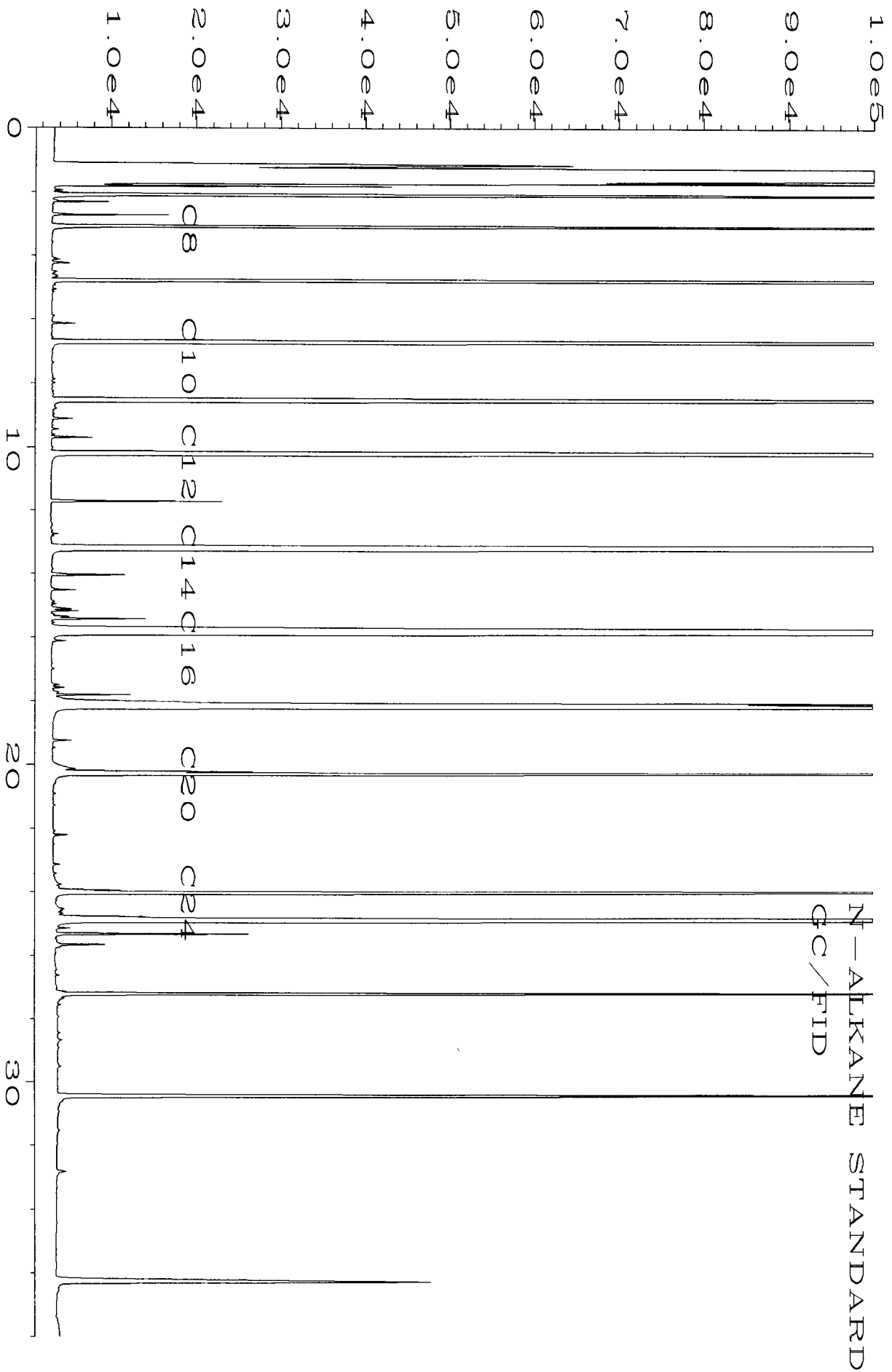
| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505034 -01 | S-NSW01-C4-255 |
| 505034 -02 | S-SSW01-C5-255 |
| 505034 -03 | S-WSW01-C5-254 |
| 505034 -04 | S-B01-C5-252 |

All quality control requirements were acceptable.

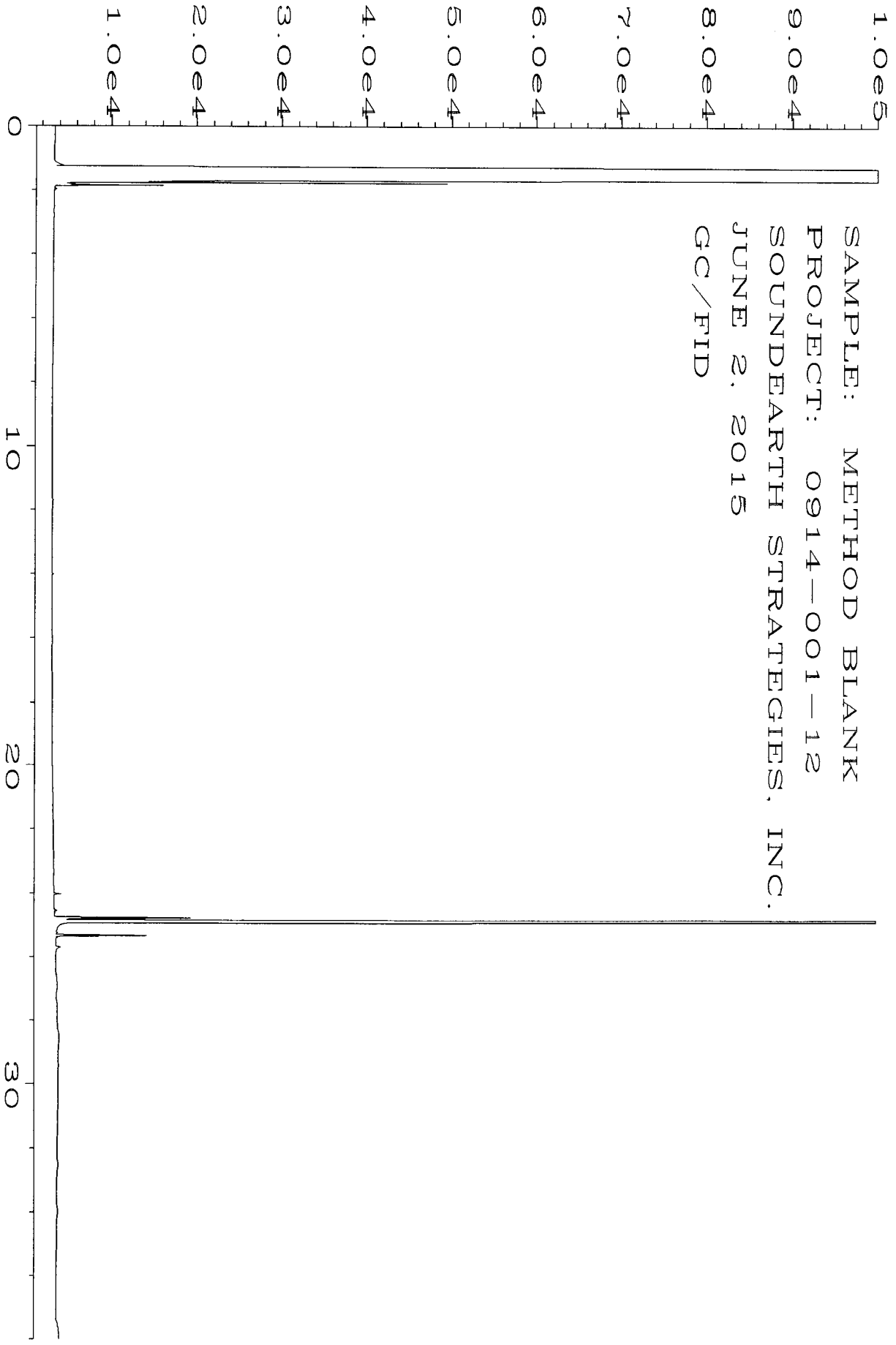
SAMPLE: S-NSW01-C4-255
PROJECT: 0914-001-12
SOUNDEARTH STRATEGIES, INC.
JUNE 2, 2015
GC/FID



Sig. 1 in C:\HPCHEM\5\DATA\06-02-15\005F0201.D



Sig. 1 in C:\HPCHEM\5\DATA\06-02-15\100F0401.D



SAMPLE: METHOD BLANK
PROJECT: 0914-001-12
SOUNDEARTH STRATEGIES, INC.
JUNE 2, 2015
GC/FID

Sig. 1 in C:\HPCHEM\5\DATA\06-02-15\003FO201.D


505034

SAMPLE CHA OF CUSTODY

ME 5/4/15

EO3
V52

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E. Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) 

PROJECT NAME/NO. 0914-CO1-12 PO # _____

REMARKS ASAP RUSH

Page # 1 of 1

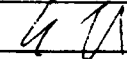

TURNAROUND TIME
Standard (2 Weeks)
 RUSH
Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|-----|----------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | HFS | |
| S. SWOT C4-255 | C4 | 255 | 01AF | 5/4/15 | 1200 | Soil | 6 | X | X | X | | | | | | * | *-per RR |
| S. SWOT C5-255 | C5 | 255 | 02 | | 1200 | | 6 | X | X | X | | | | | | | 6/1/15 |
| S. SWOT C5-254 | C5 | 254 | 03 | | 1200 | | 6 | X | X | X | | | | | | | M9. |
| S. SWOT C5-252 | C5 | 252 | 04 | | 1200 | | 6 | X | X | X | | | | | | | |
| _____ | | | | | | | | | | | | | | | | | |

Samples received at 5 °C

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 |
|--|-------------|---------|--------|------|
| Relinquished by:  | Liz Friedl | SET | 5/4/15 | 1310 |
| Received by:  | Matt Lystra | FISH | 5/4/15 | 1310 |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

Friedman & Bruya, Inc. #505159

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 21, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 11, 2015 from the SOU_0914-001-12_20150511, F&BI 505159 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0521R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 11, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150511, F&BI 505159 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505159 -01 | S-B01-B4-260 |
| 505159 -02 | S-B01-B3-260 |
| 505159 -03 | S-B01-C4-259 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505159

Date Extracted: 05/15/15

Date Analyzed: 05/15/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-B4-260 505159-01 | <0.02 | <0.02 | <0.02 | <0.06 | 75 | 88 |
| S-B01-B3-260 505159-02 | <0.02 | <0.02 | <0.02 | <0.06 | 40 | 87 |
| S-B01-C4-259 505159-03 | <0.02 | <0.02 | 0.047 | 0.099 | 240 | 79 |
| Method Blank 05-0943 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505159

Date Extracted: 05/15/15

Date Analyzed: 05/15/15

**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 53-144) |
|-----------------------------------|--|---|---|
| S-B01-B4-260 505159-01 | <50 | <250 | 101 |
| S-B01-B3-260 505159-02 | <50 | <250 | 103 |
| S-B01-C4-259 505159-03 | 740 | <250 | 102 |
| Method Blank 05-972 MB | <50 | <250 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505159

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 505236-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 98 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 99 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 101 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 101 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505159

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505159-01 (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 | <50 | 91 | 103 | 64-133 | 12 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 92 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

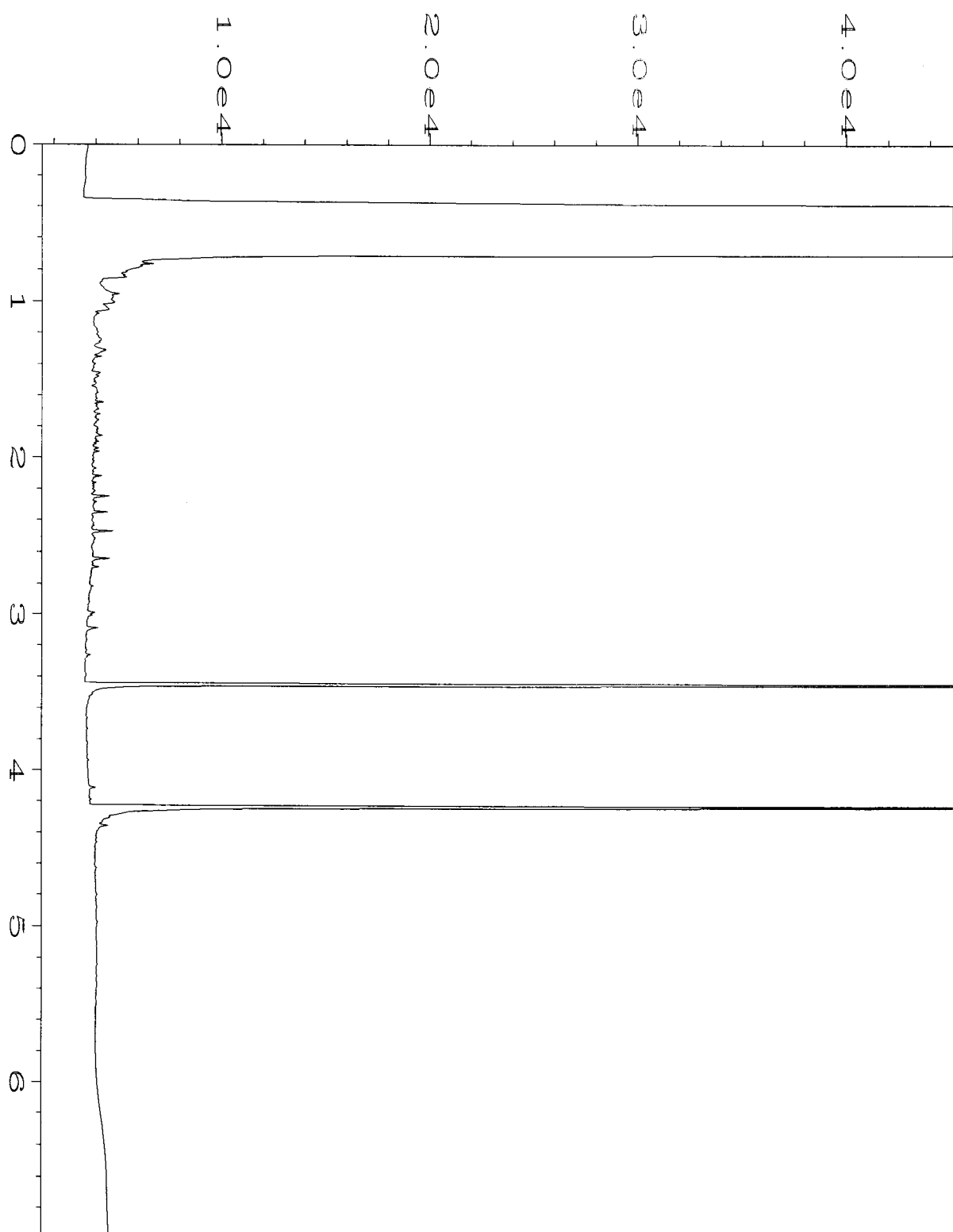
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

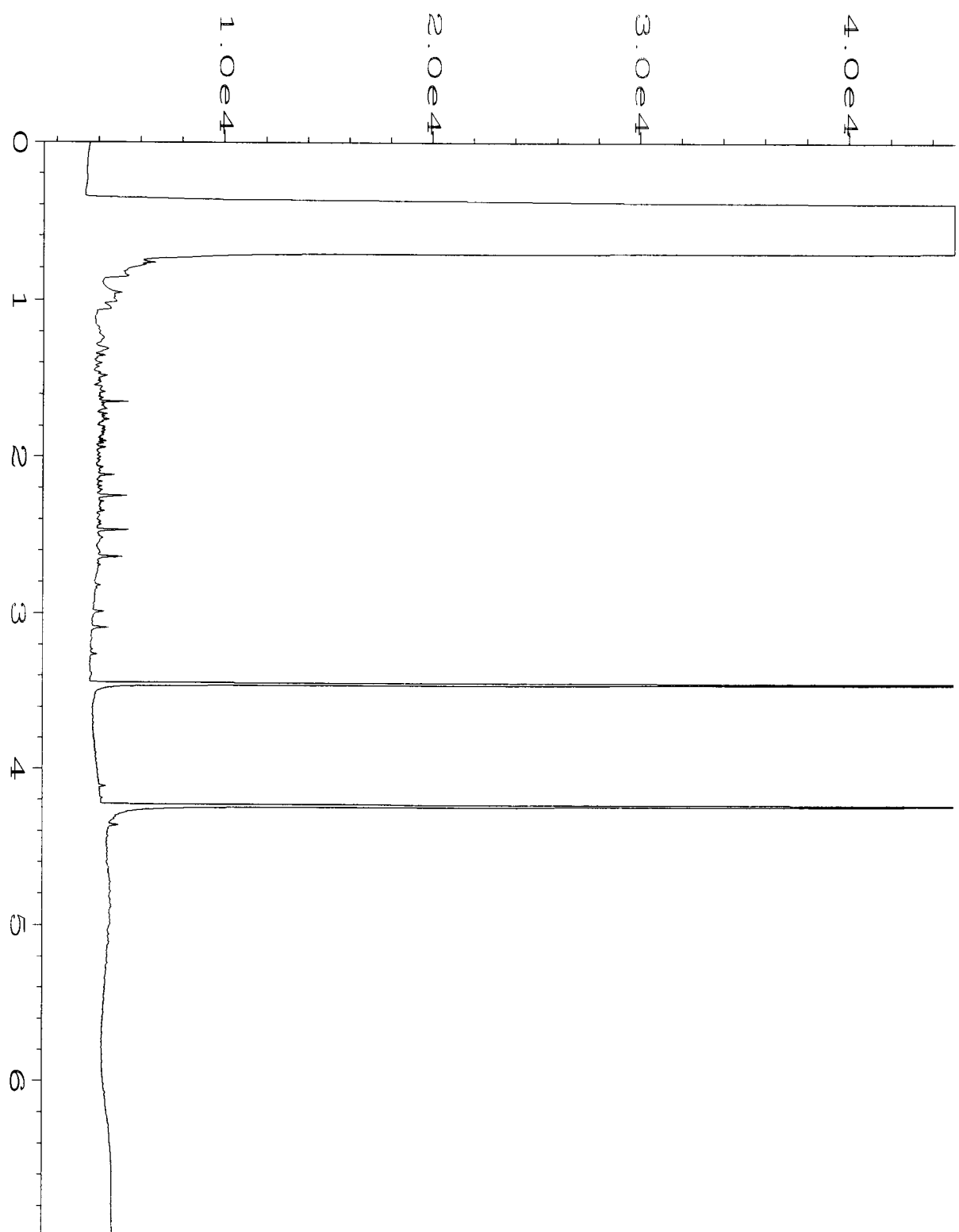
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

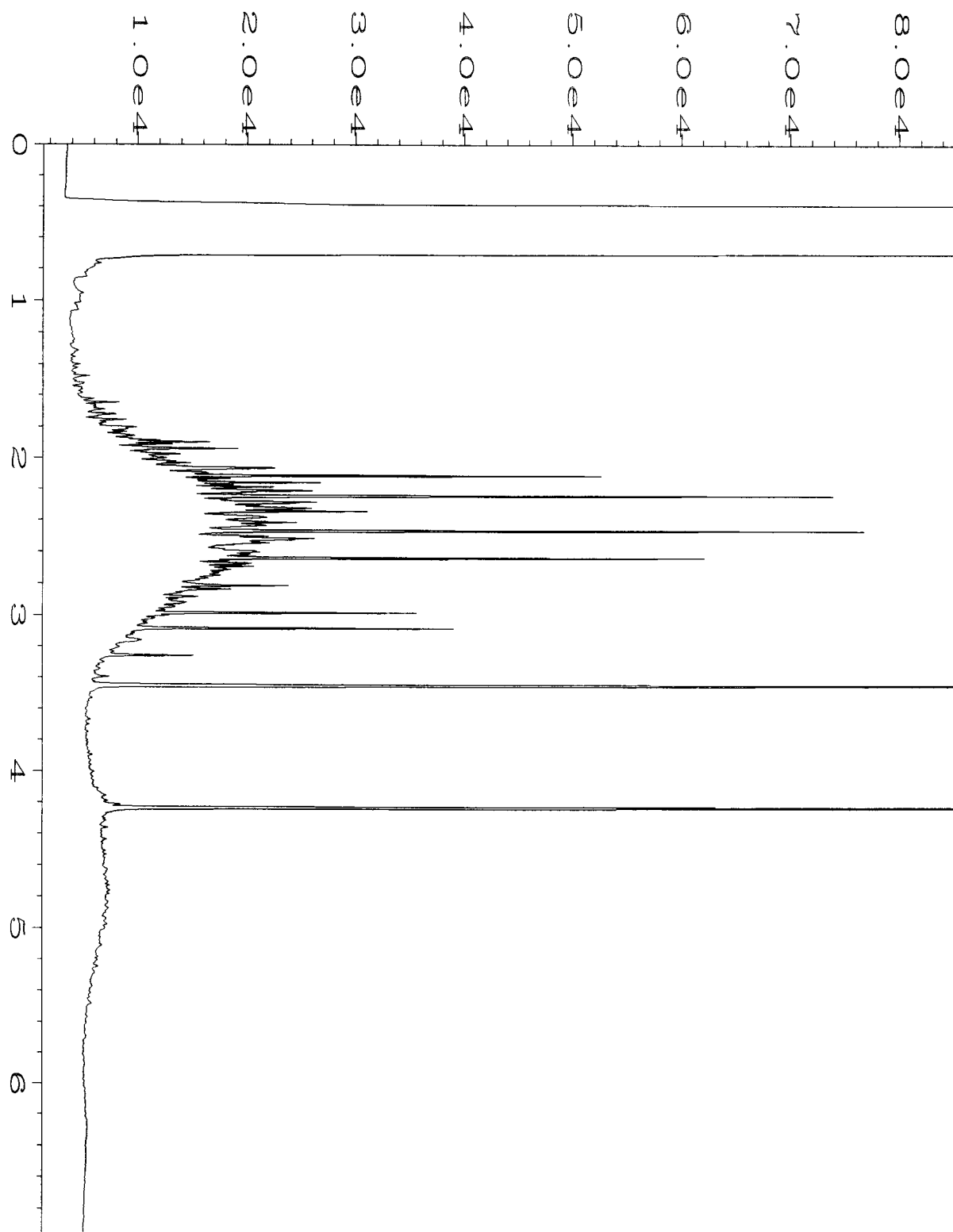
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



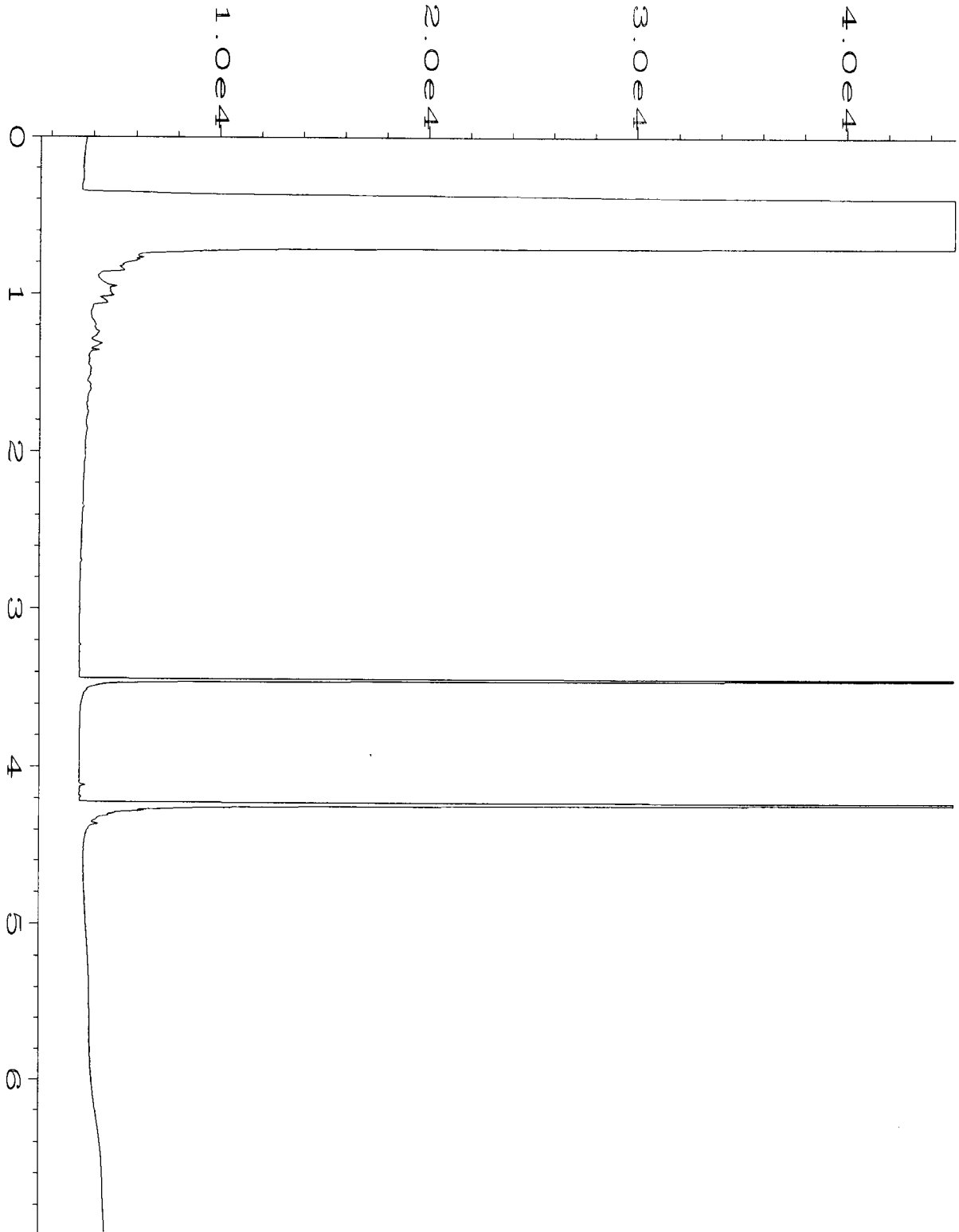
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\016F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 16 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 505159-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 12:15 PM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:25 AM | | |



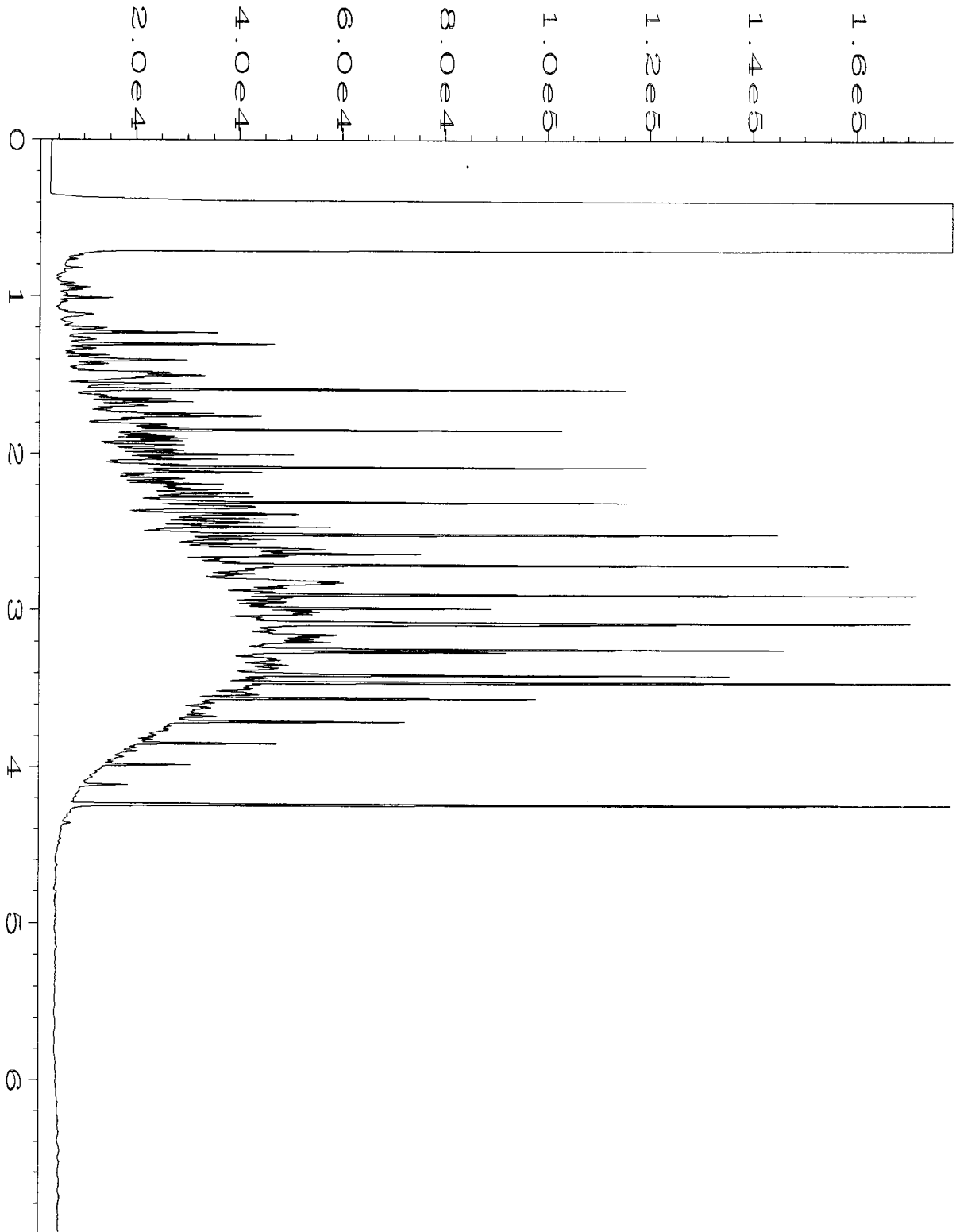
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\024F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 24 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 505159-02 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 01:53 PM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:25 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\025F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 505159-03 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 02:04 PM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\014F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 14 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-972 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 11:54 AM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 09:15 AM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |

505159

SAMPLE CHAIN OF CUSTODY

ME 05-11-15

E02 US2

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue E, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 0914-001-12
PO #
REMARKS

Page # of
TURNAROUND TIME
Standard (2 Weeks)
RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Sample Location, Sample Depth, Lab ID, Date Sampled, Time Sampled, Matrix, # of Jars, ANALYSES REQUESTED (NWTPH-Dx, NWTPH-Gx, BTEX by 8021B, PAHs by 82670SIM, VOCs by 8260C, Metals by 200.8, PCBs by Method 8082), Notes. Includes handwritten entries for samples B4, B3, and C4.

Samples received at 4

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Contains handwritten signatures and names for Relinquished and Received parties.

Friedman & Bruya, Inc. #505163

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 14, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 11, 2015 from the SOU_0914-001-12_20150511, F&BI 505163 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0514R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 11, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150511, F&BI 505163 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505163 -01 | S-B01-B3-255 |
| 505163 -02 | S-B01-C3-255 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505163

Date Extracted: 05/12/15

Date Analyzed: 05/12/15

**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 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-B3-255 505163-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| S-B01-C3-255 505163-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| Method Blank 05-0937 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505163

Date Extracted: 05/12/15

Date Analyzed: 05/12/15

**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> (% Recovery) (Limit 48-168) |
|-----------------------------------|--|---|--|
| S-B01-B3-255 505163-01 | <50 | <250 | 111 |
| S-B01-C3-255 505163-02 | <50 | <250 | 112 |
| Method Blank 05-954 MB2 | <50 | <250 | 109 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505163

**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: 505176-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 91 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 95 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 93 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/15

Date Received: 05/11/15

Project: SOU_0914-001-12_20150511, F&BI 505163

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505150-17 (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 | <50 | 97 | 95 | 64-133 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 101 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

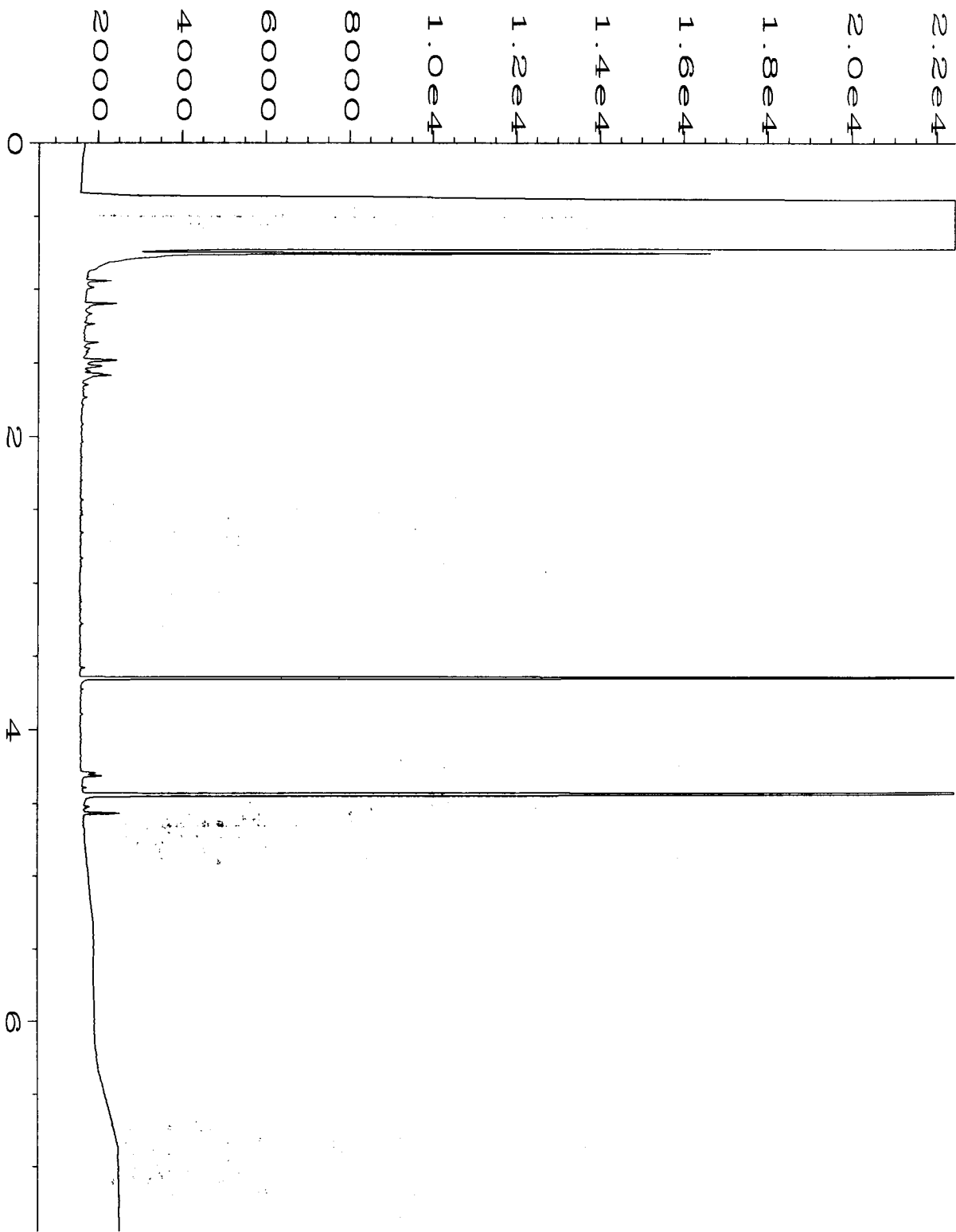
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

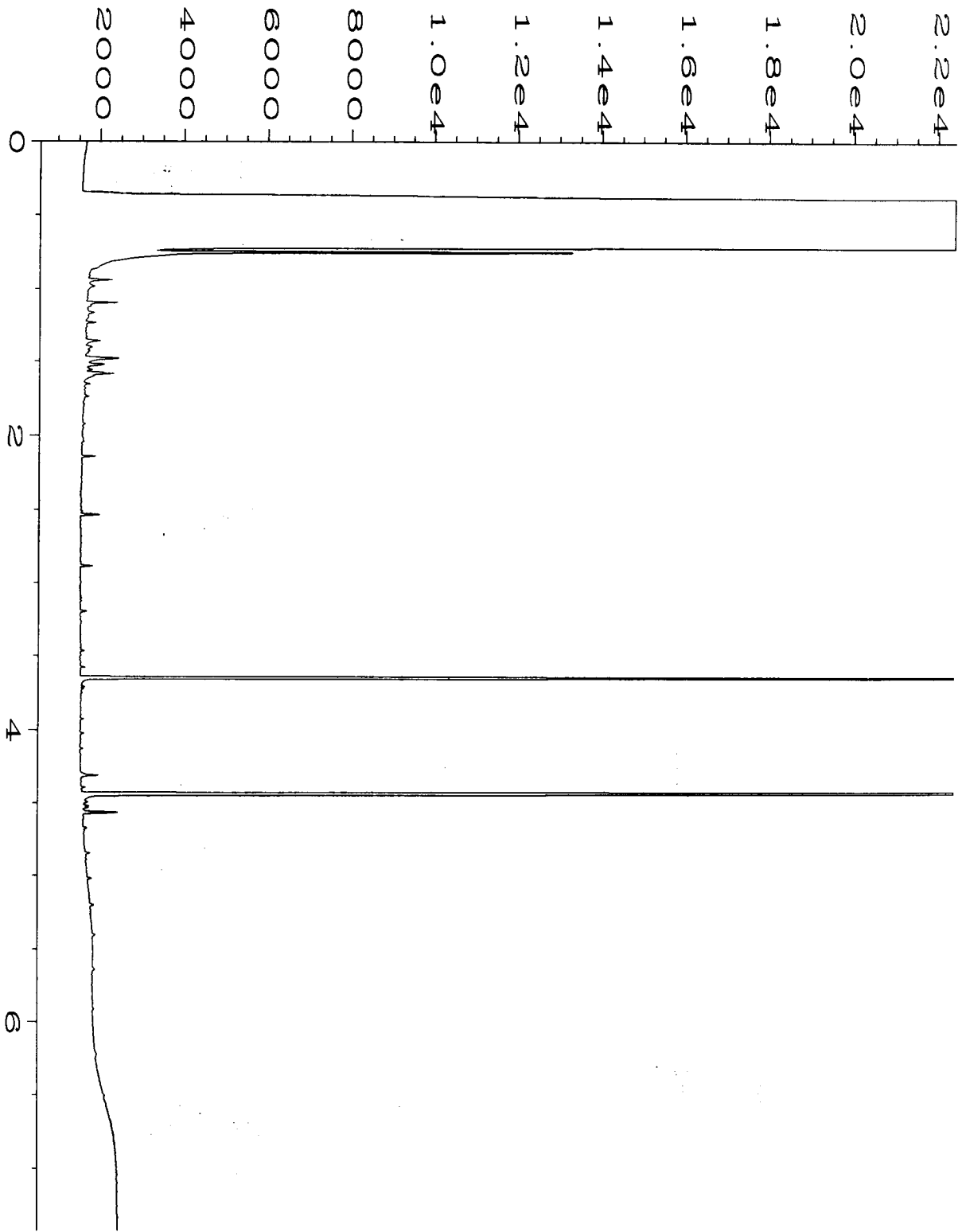
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

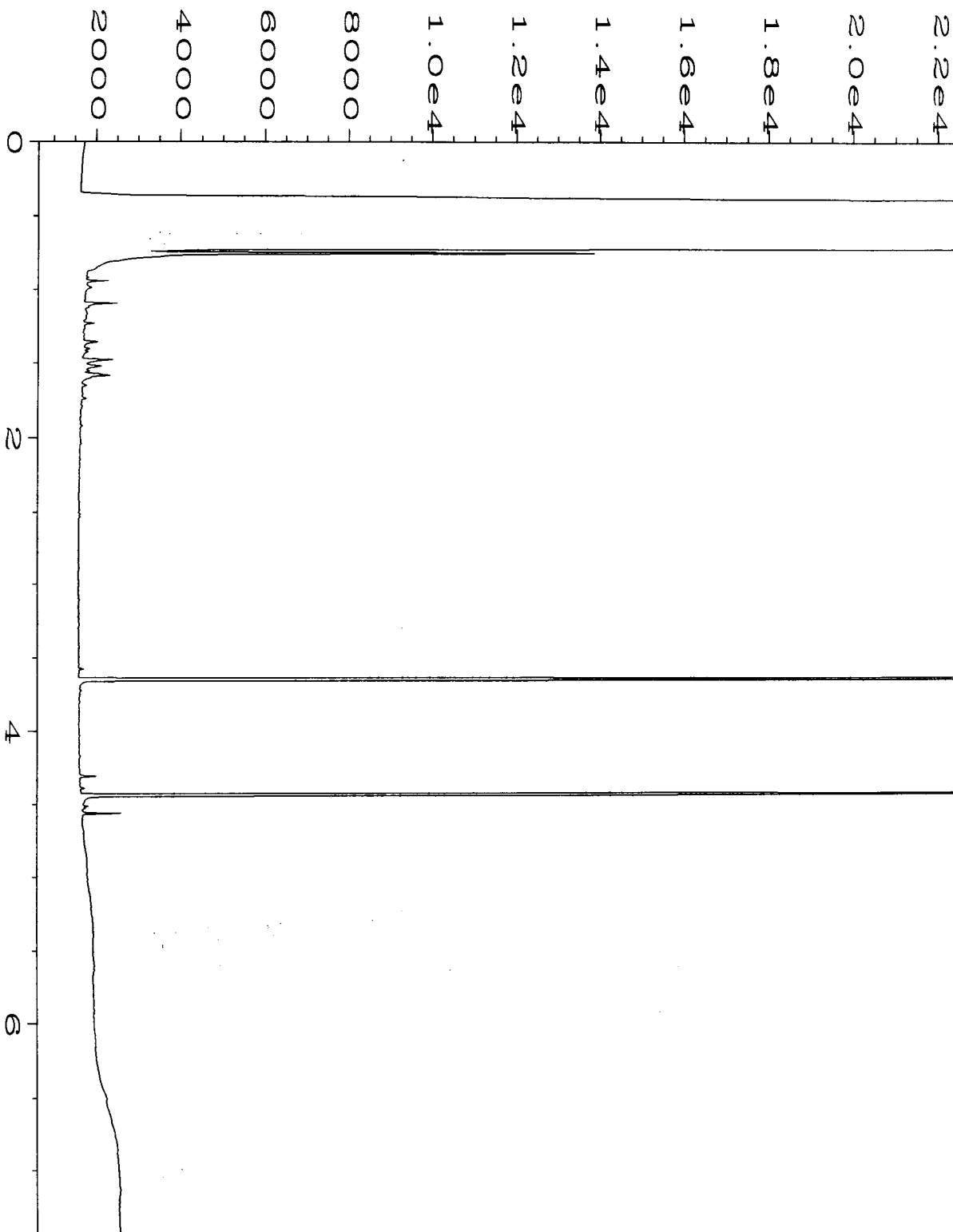
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



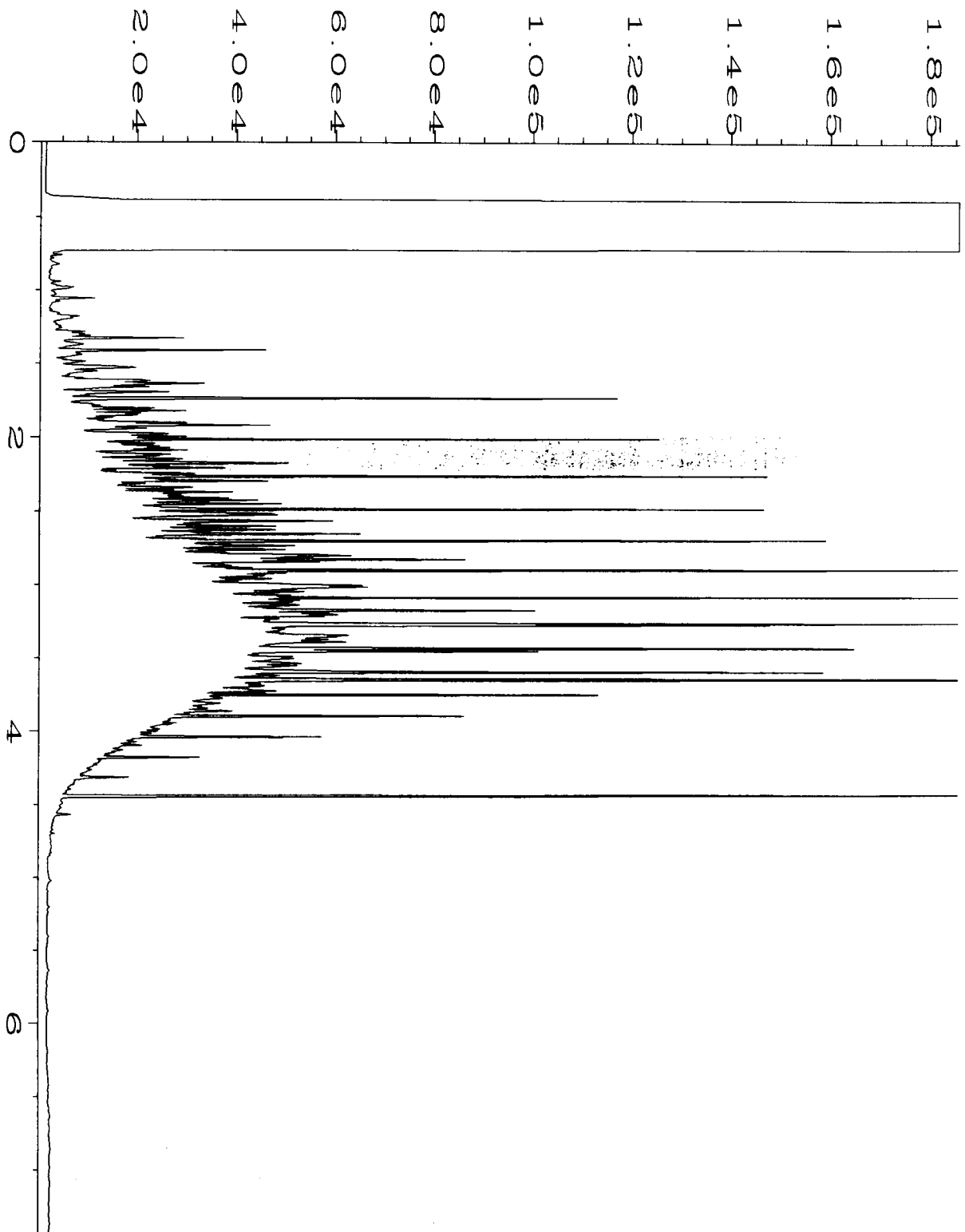
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\008F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 8 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505163-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 09:26 AM | Analysis Method | : DX.MTH |
| Report Created on: | 12 May 15 11:14 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\009F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 9 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505163-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 09:38 AM | Analysis Method | : DX.MTH |
| Report Created on: | 12 May 15 11:14 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\007F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 7 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-954 mb2 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 09:14 AM | Analysis Method | : DX.MTH |
| Report Created on: | 12 May 15 11:14 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\003F0201.D | Page Number | : 1 |
| Operator | : mwd1 | Vial Number | : 3 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:51 AM | Analysis Method | : DX.MTH |
| Report Created on: | 12 May 15 11:14 AM | | |

Friedman & Bruya, Inc. #505195

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 20, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 12, 2015 from the SOU_0914-001_20150512, F&BI 505195 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0520R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 12, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001_20150512, F&BI 505195 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505195 -01 | S-B01-C4-255 |
| 505195 -02 | S-B01-B4-255 |
| 505195 -03 | S-B01-A1-250 |
| 505195 -04 | S-B01-A2-250 |
| 505195 -05 | S-B01-A3-250 |
| 505195 -06 | S-B01-B1-250 |
| 505195 -07 | S-B01-B2-250 |
| 505195 -08 | S-B01-C1-250 |
| 505195 -09 | S-B01-C2-250 |
| 505195 -10 | S-B01-B3-250 |
| 505195 -11 | S-B01-A4-250 |
| 505195 -12 | S-B01-B4-250 |
| 505195 -13 | S-ESW01-B5-255 |
| 505195 -14 | S-SSW02-A4-255 |
| 505195 -15 | S-SSW01-B5-255 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

Date Extracted: 05/12/15, 05/13/15, and 05/15/15

Date Analyzed: 05/12/15, 05/13/15, 05/14/15, and 05/15/15

**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 50-132) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-B01-C4-255 505195-01 | <0.02 | <0.02 | 0.90 | 1.7 | 660 | 100 |
| S-B01-B4-255 505195-02 1/5 | <0.02 j | <0.1 | 1.3 | 3.6 | 1,500 | 105 |
| S-B01-A1-250 505195-03 1/10 | <0.2 | <0.2 | 25 | 58 | 3,300 | ip |
| S-B01-A2-250 505195-04 1/100 | <0.4 | 65 | 53 | 460 | 7,200 | 91 |
| S-B01-A3-250 505195-05 1/1000 | <0.2 | 24 | 91 | 860 | 8,000 | 88 |
| S-B01-B1-250 505195-06 1/10 | <0.4 | <0.2 | 29 | 74 | 4,000 | ip |
| S-B01-B2-250 505195-07 1/100 | <0.4 | 26 | 48 | 250 | 4,900 | 90 |
| S-B01-C1-250 505195-08 1/5 | <0.02 j | <0.1 | 14 | 15 | 2,000 | 131 |
| S-B01-C2-250 505195-09 1/5 | <0.02 j | <0.1 | 11 | 11 | 1,500 | 116 |
| S-B01-B3-250 505195-10 | <0.02 | <0.02 | 0.57 | 4.2 | 400 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

Date Extracted: 05/12/15, 05/13/15, and 05/15/15

Date Analyzed: 05/12/15, 05/13/15, 05/14/15, and 05/15/15

**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 50-132) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-B01-A4-250 505195-11 | <0.02 | <0.02 | <0.02 | <0.06 | 4.0 | 88 |
| S-B01-B4-250 505195-12 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| S-ESW01-B5-255 505195-13 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 102 |
| S-SSW02-A4-255 505195-14 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 95 |
| S-SSW01-B5-255 505195-15 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 98 |
| Method Blank 05-938 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| Method Blank 05-0941 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| Method Blank 05-0943 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15
 Date Received: 05/12/15
 Project: SOU_0914-001_20150512, F&BI 505195
 Date Extracted: 05/12/15 and 05/15/15
 Date Analyzed: 05/12/15 and 05/15/15

**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 48-168) |
|-----------------------------------|--|---|---|
| S-B01-C4-255 505195-01 | 2,800 | <250 | 101 |
| S-B01-B4-255 505195-02 | 3,000 | 1,400 | 105 |
| S-B01-A1-250 505195-03 | 1,100 x | <250 | 87 |
| S-B01-A2-250 505195-04 | 1,800 x | <250 | 97 |
| S-B01-A3-250 505195-05 | 1,200 x | <250 | 97 |
| S-B01-B1-250 505195-06 | 1,500 x | <250 | 97 |
| S-B01-B2-250 505195-07 | 1,500 x | <250 | 100 |
| S-B01-C1-250 505195-08 | 680 x | <250 | 101 |
| S-B01-C2-250 505195-09 | 370 x | <250 | 91 |
| S-B01-B3-250 505195-10 | 130 x | <250 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15
 Date Received: 05/12/15
 Project: SOU_0914-001_20150512, F&BI 505195
 Date Extracted: 05/12/15 and 05/15/15
 Date Analyzed: 05/12/15 and 05/15/15

**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> (% Recovery) (Limit 48-168) |
|-----------------------------------|--|---|--|
| S-B01-A4-250 505195-11 | <50 | <250 | 103 |
| S-B01-B4-250 505195-12 | <50 | <250 | 100 |
| S-ESW01-B5-255 505195-13 | <50 | <250 | 89 |
| S-SSW02-A4-255 505195-14 | <50 | <250 | 98 |
| S-SSW01-B5-255 505195-15 | <50 | <250 | 90 |
| Method Blank 05-962 MB | <50 | <250 | 94 |
| Method Blank 05-972 MB | <50 | <250 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 505195-14 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 86 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 86 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 87 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 87 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 85 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 0.5 | 78 | 78 | 69-120 | 0 |
| Toluene | mg/kg (ppm) | 0.5 | 89 | 89 | 70-117 | 0 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 89 | 89 | 65-123 | 0 |
| Xylenes | mg/kg (ppm) | 1.5 | 88 | 89 | 66-120 | 1 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 105 | 71-131 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

**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: 505236-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 98 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 99 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 101 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 101 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505183-03 (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 | 4,800 | 103 | 114 | 73-135 | 10 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 92 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/15

Date Received: 05/12/15

Project: SOU_0914-001_20150512, F&BI 505195

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505159-01 (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 | <50 | 91 | 103 | 64-133 | 12 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 92 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

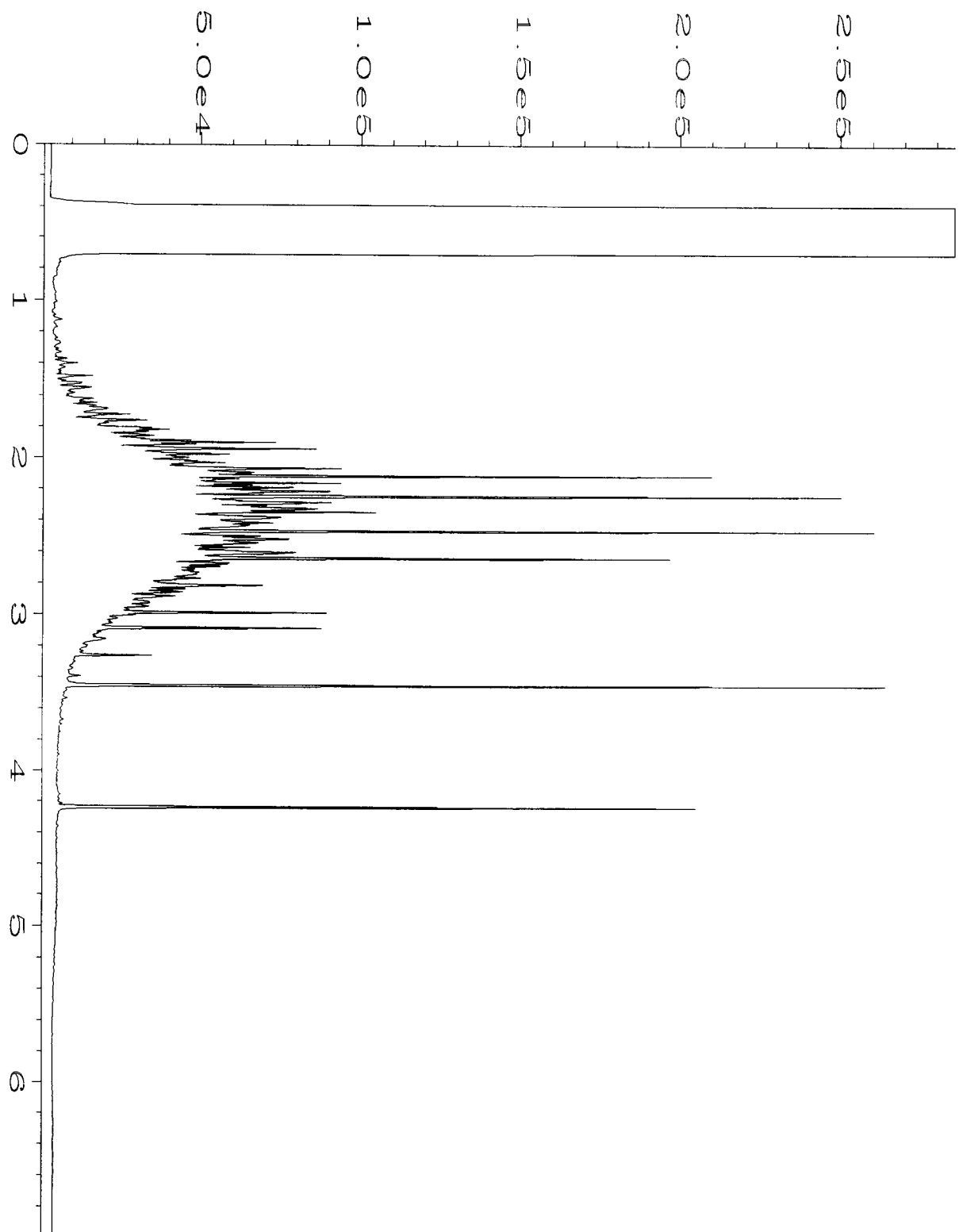
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

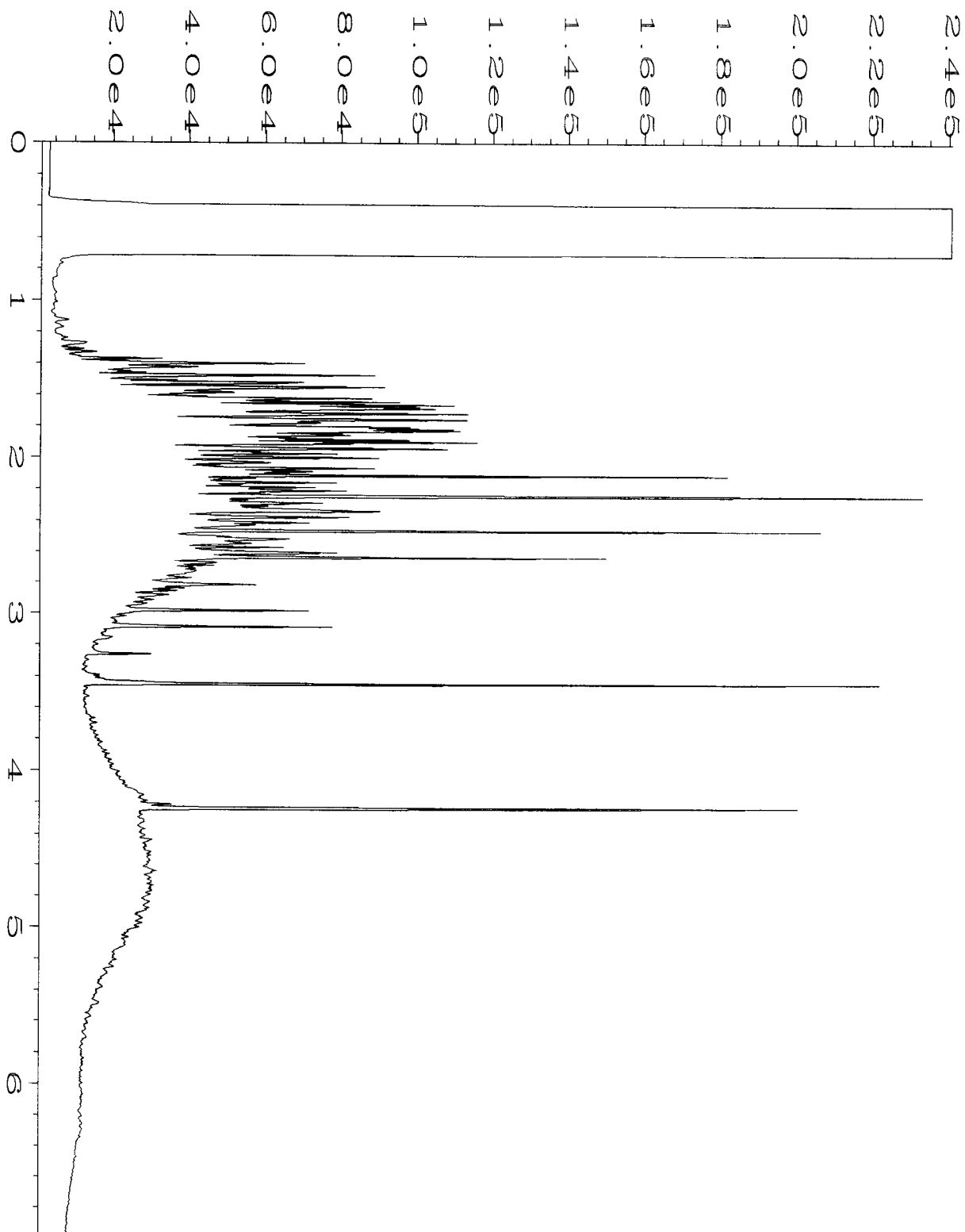
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

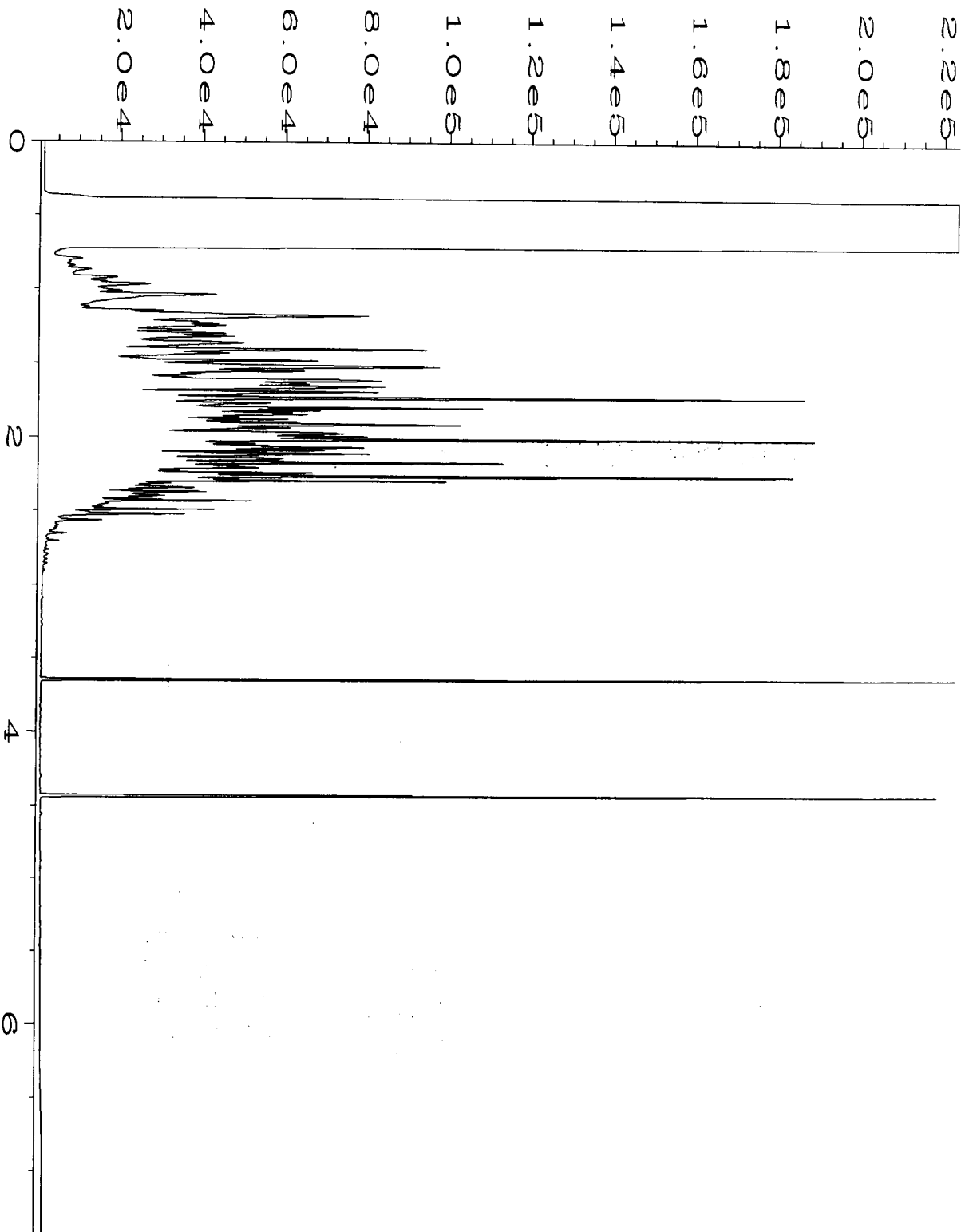
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



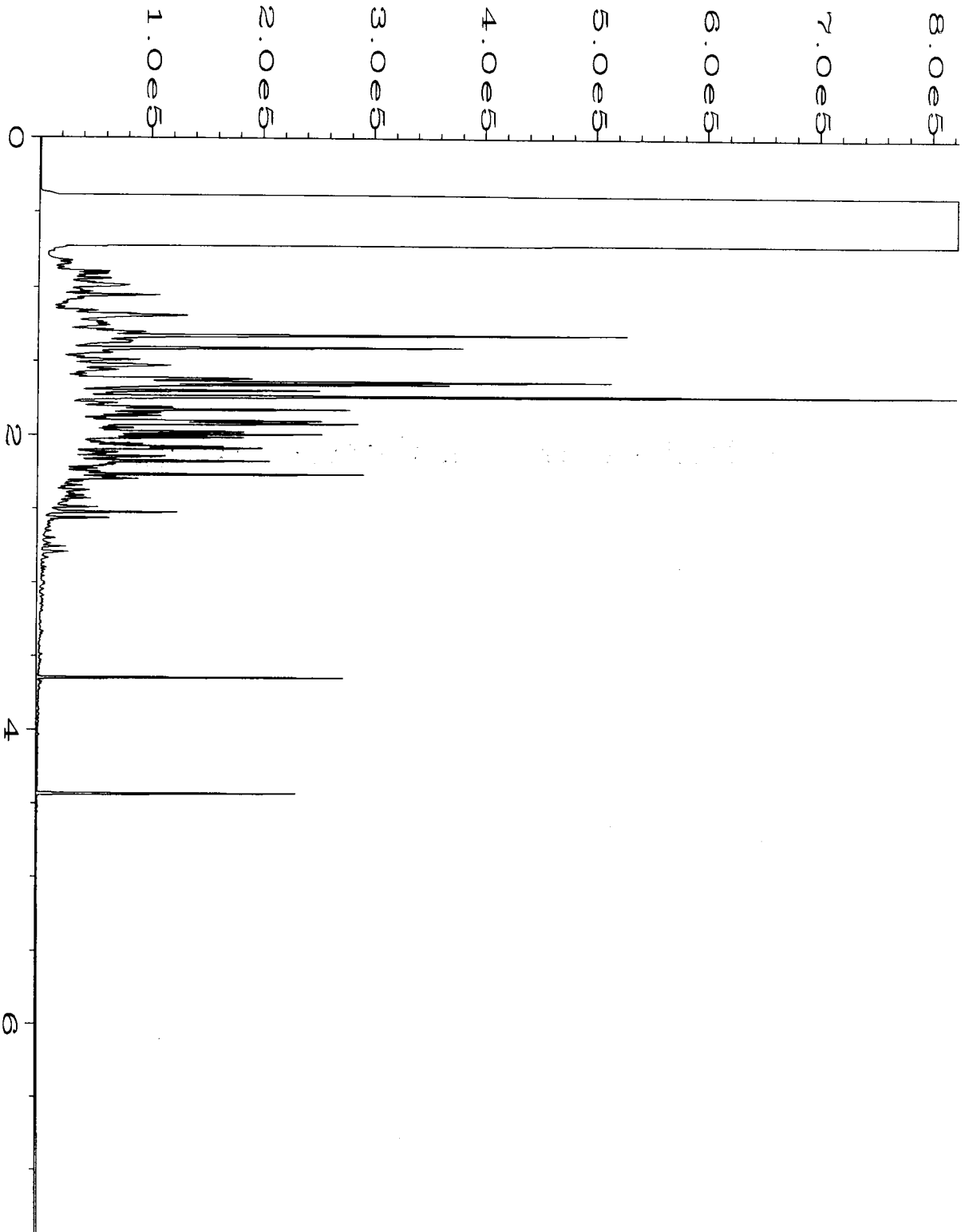
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|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\027F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 27 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 505195-01 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 02:26 PM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |



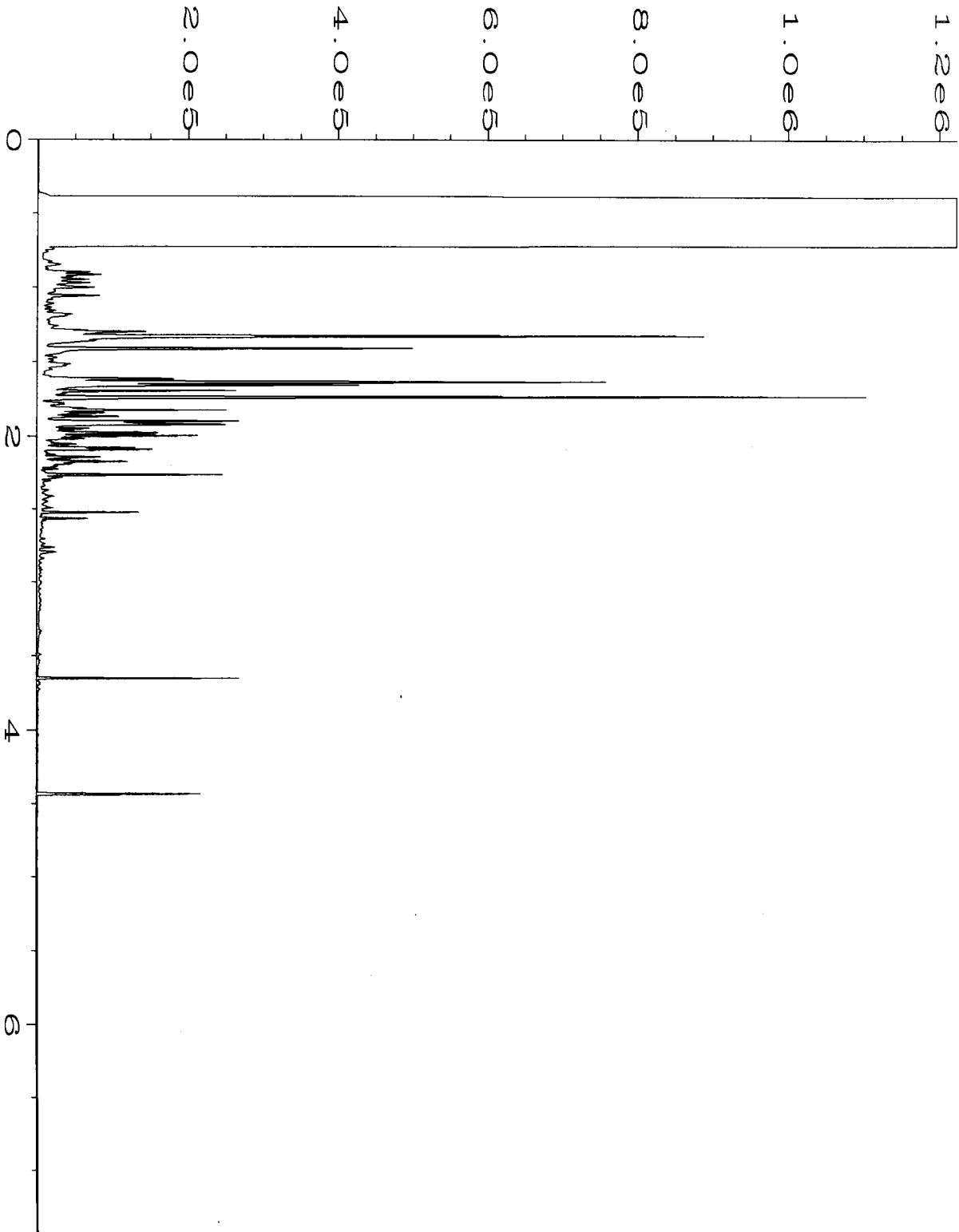
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|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\028F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 28 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 505195-02 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 02:36 PM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |



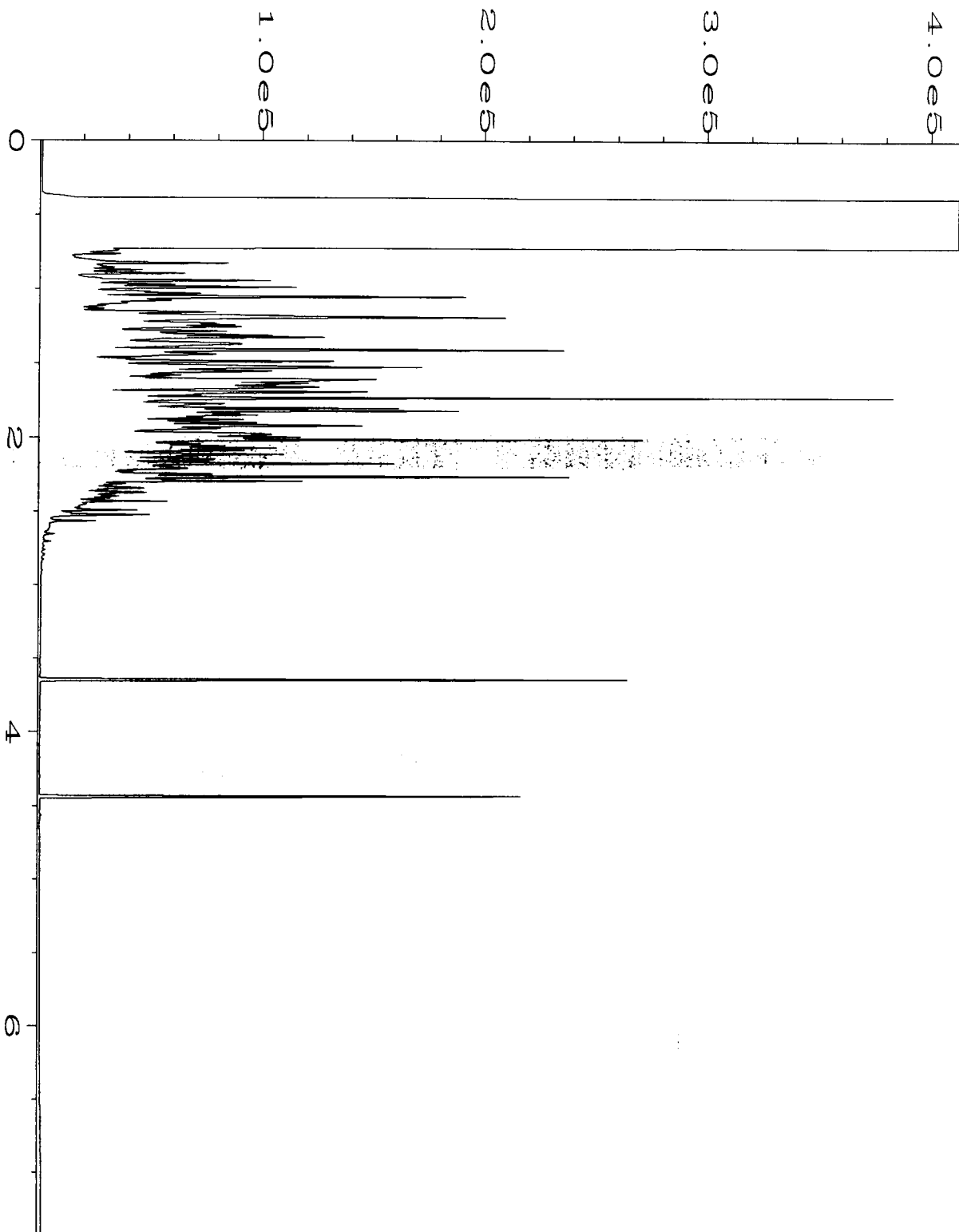
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\036F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 36 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-03 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 06:57 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:12 AM | | |



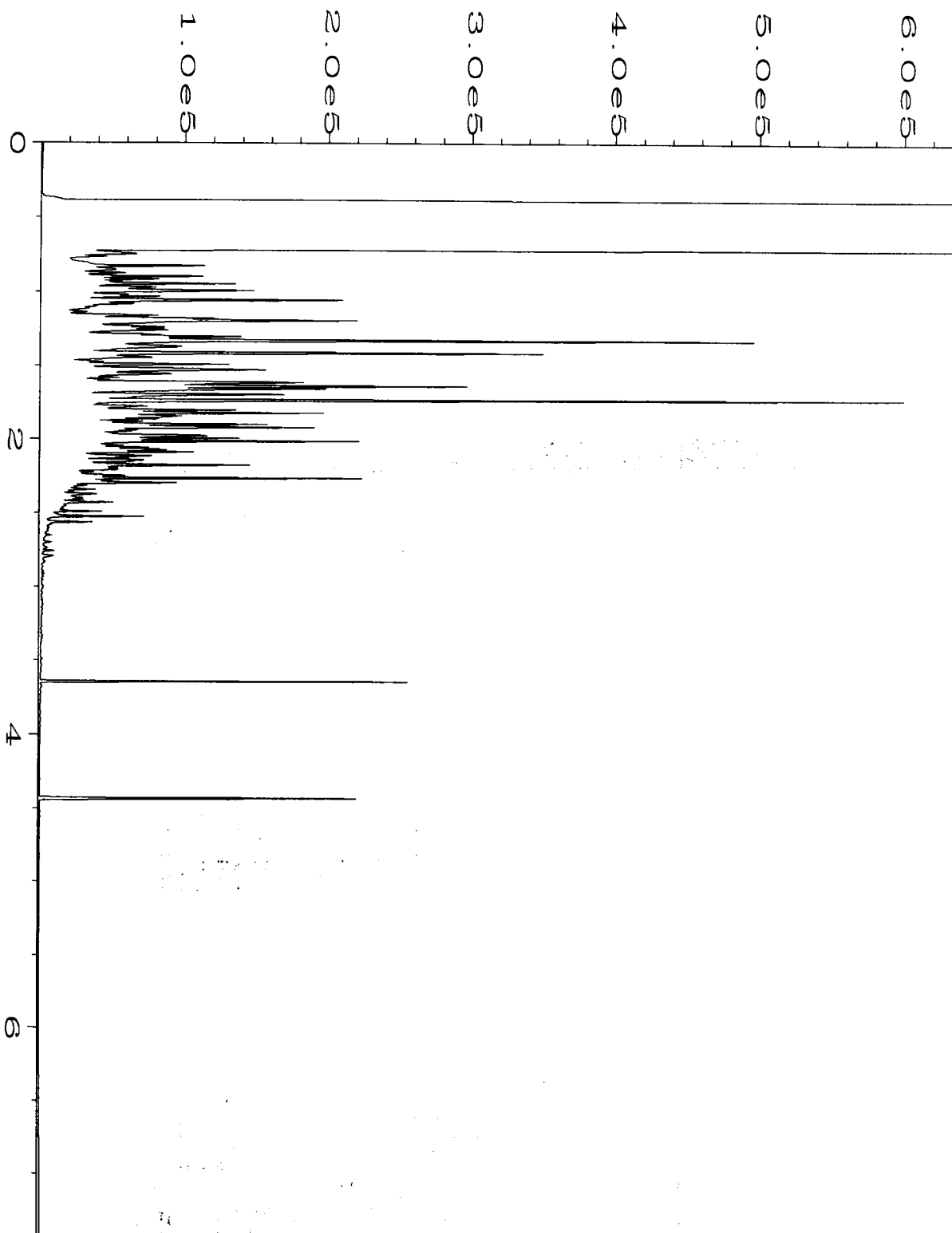
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\037F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 37 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-04 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 07:09 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:13 AM | | |



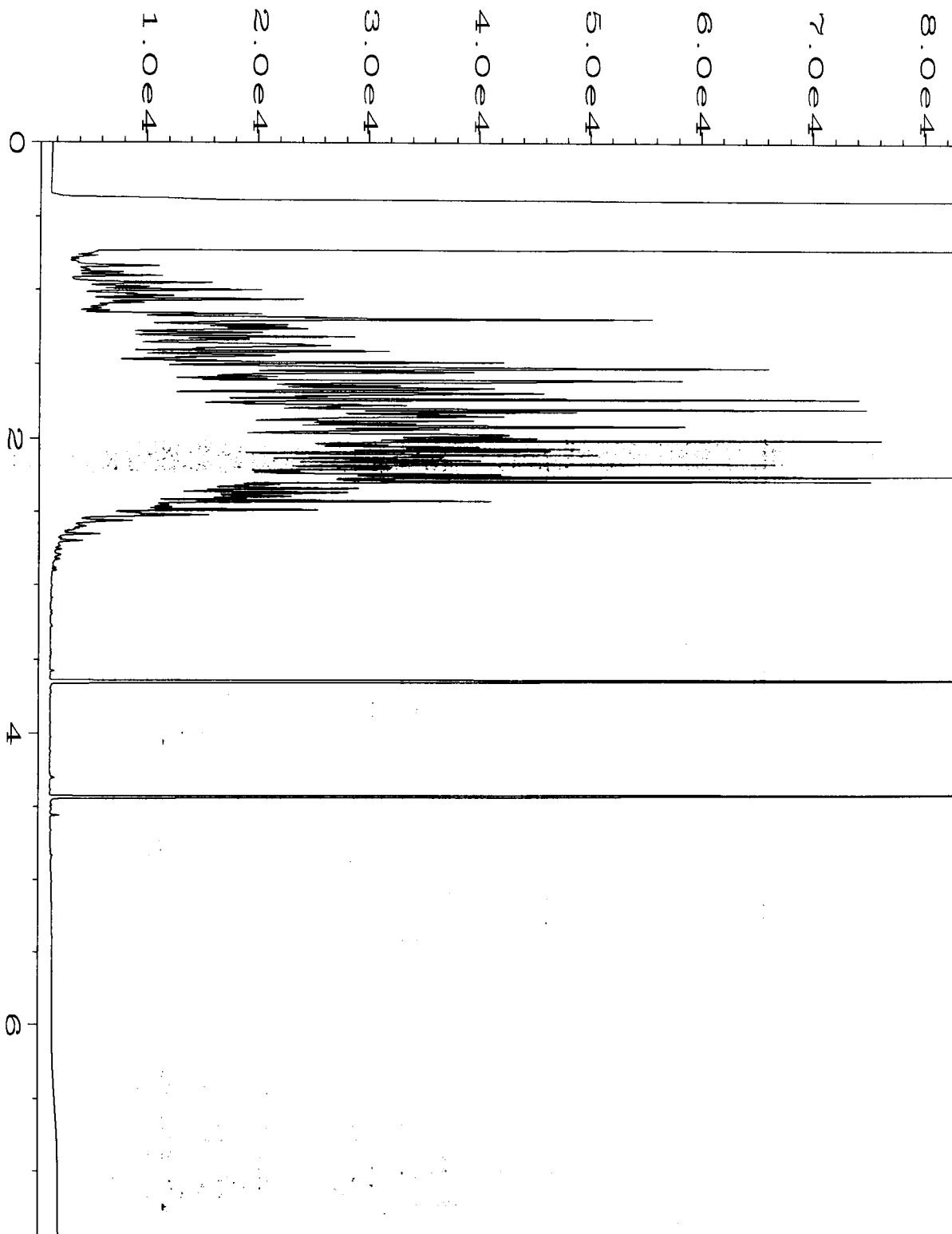
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| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-05 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 07:20 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:13 AM | | |



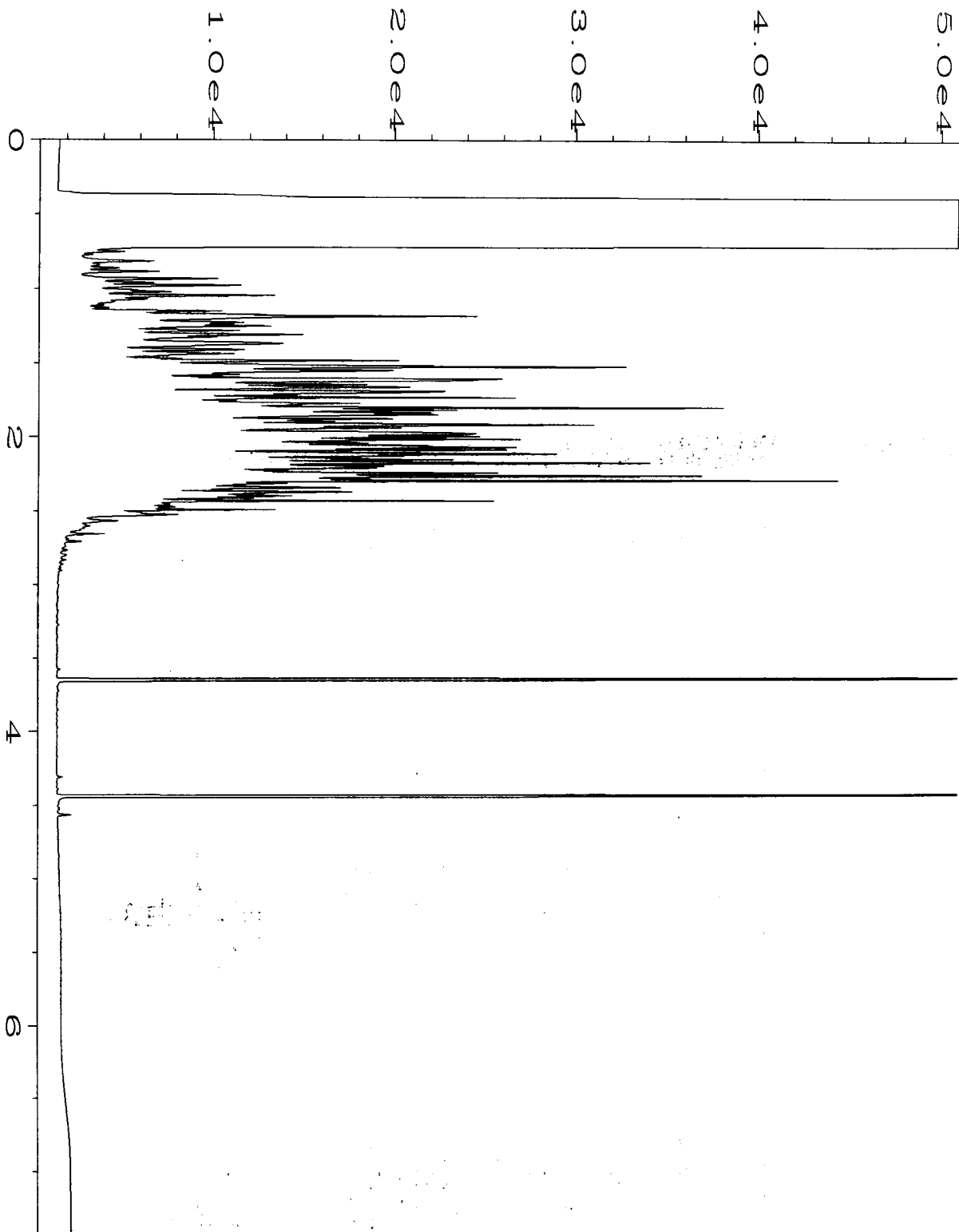
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| Operator | : mwdl | Vial Number | : 39 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-06 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 07:32 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:13 AM | | |



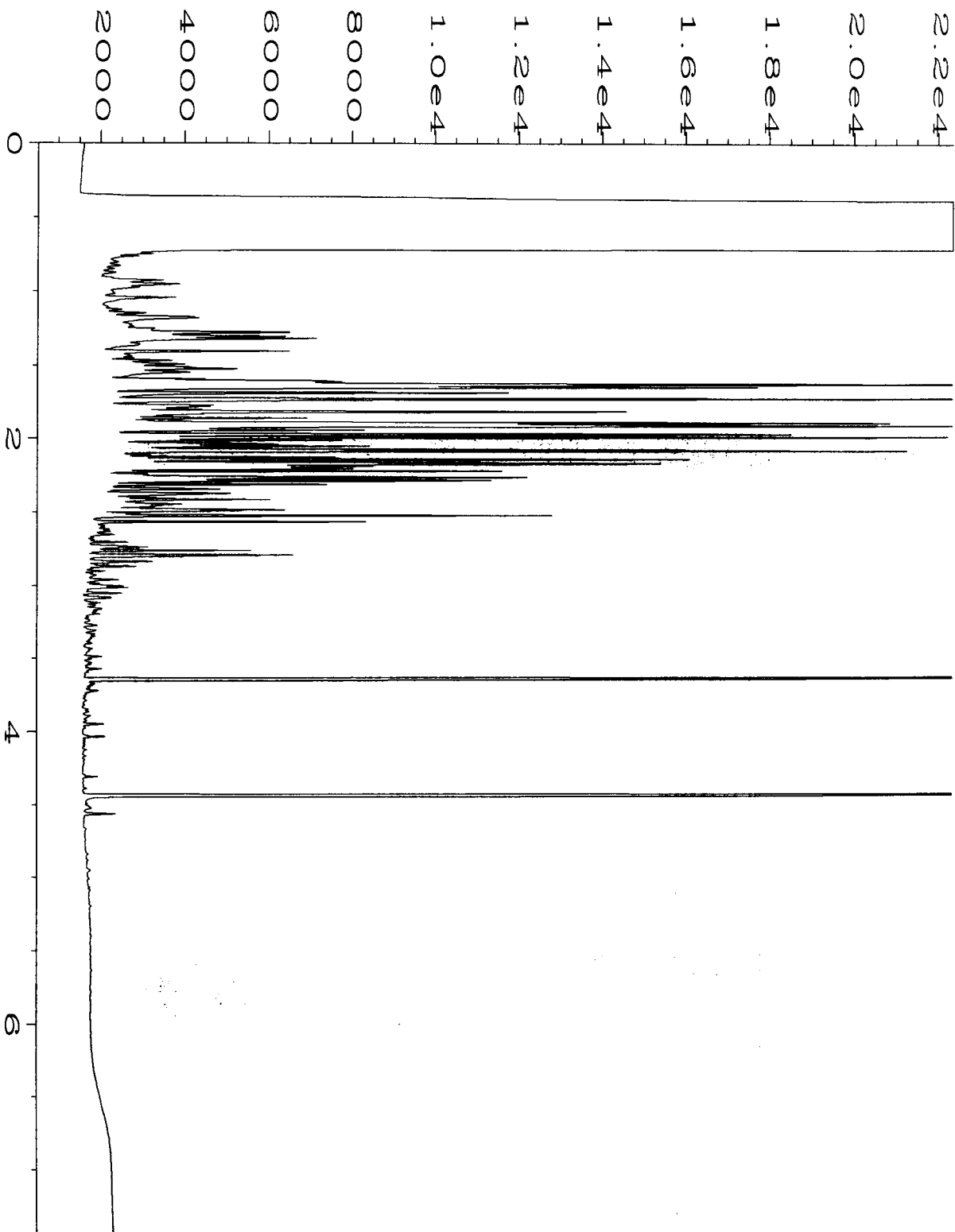
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\040F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 40 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-07 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 07:44 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:14 AM | | |



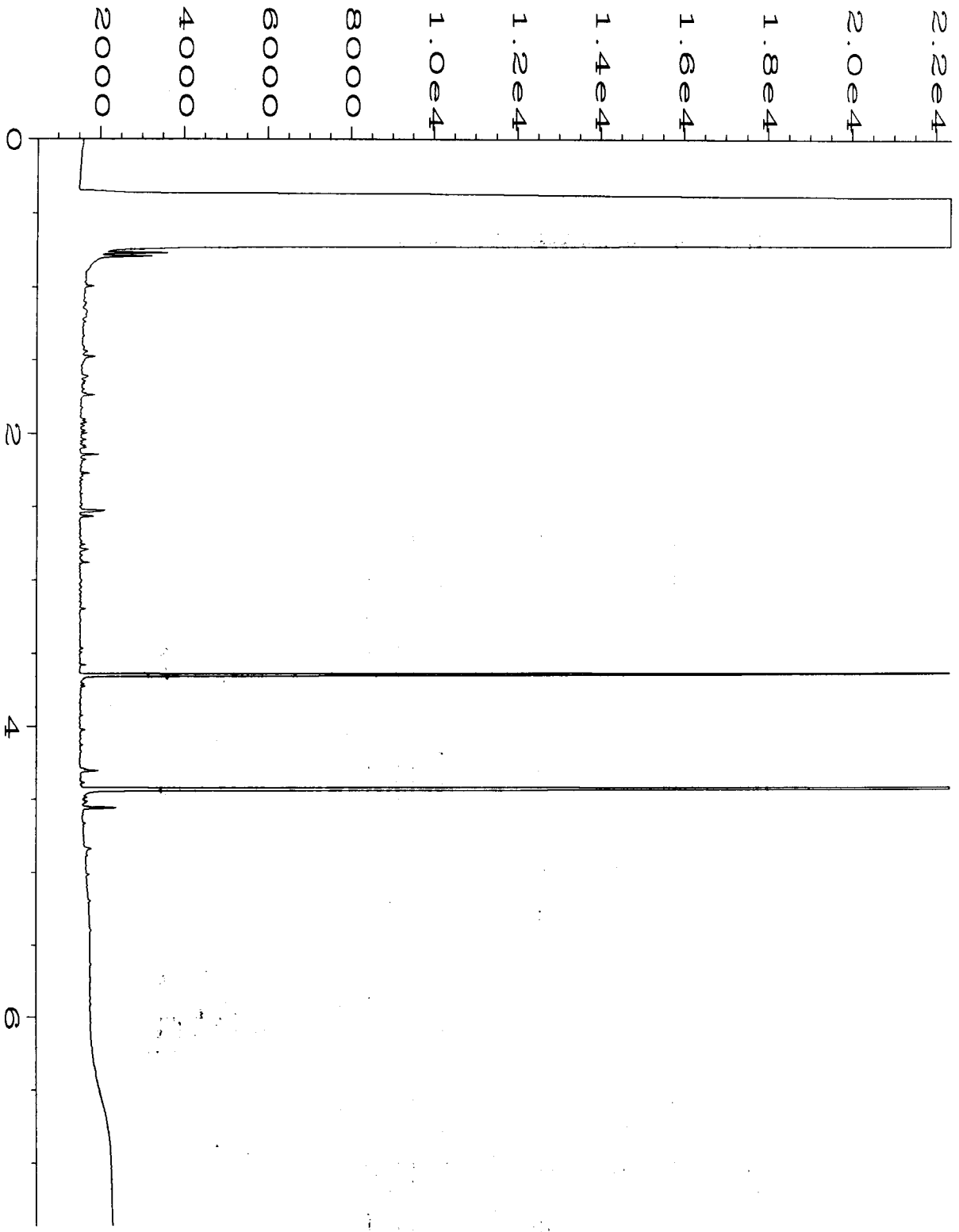
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| Operator | : mwdl | Vial Number | : 41 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-08 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 07:56 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:14 AM | | |



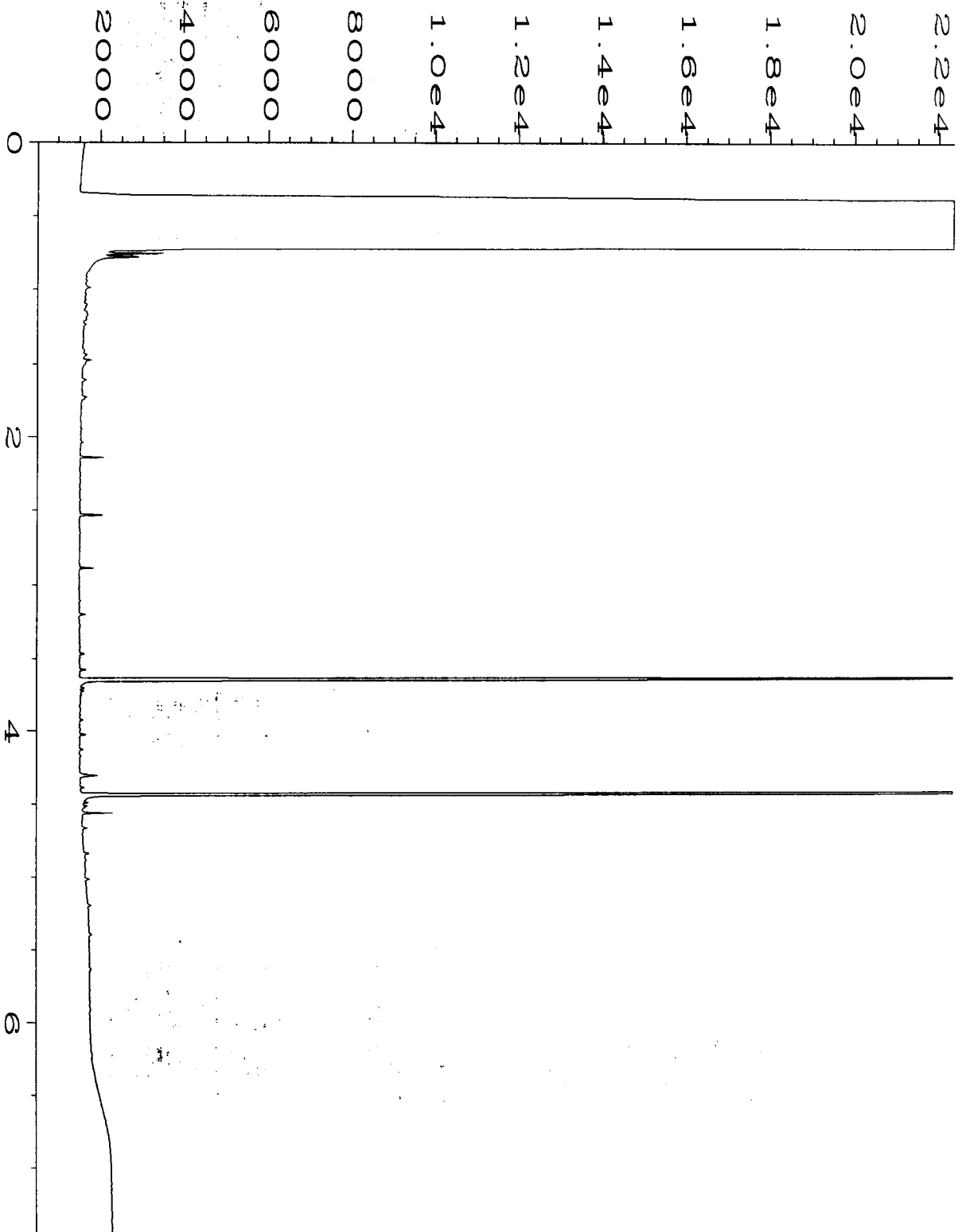
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| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-09 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:07 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:14 AM | | |



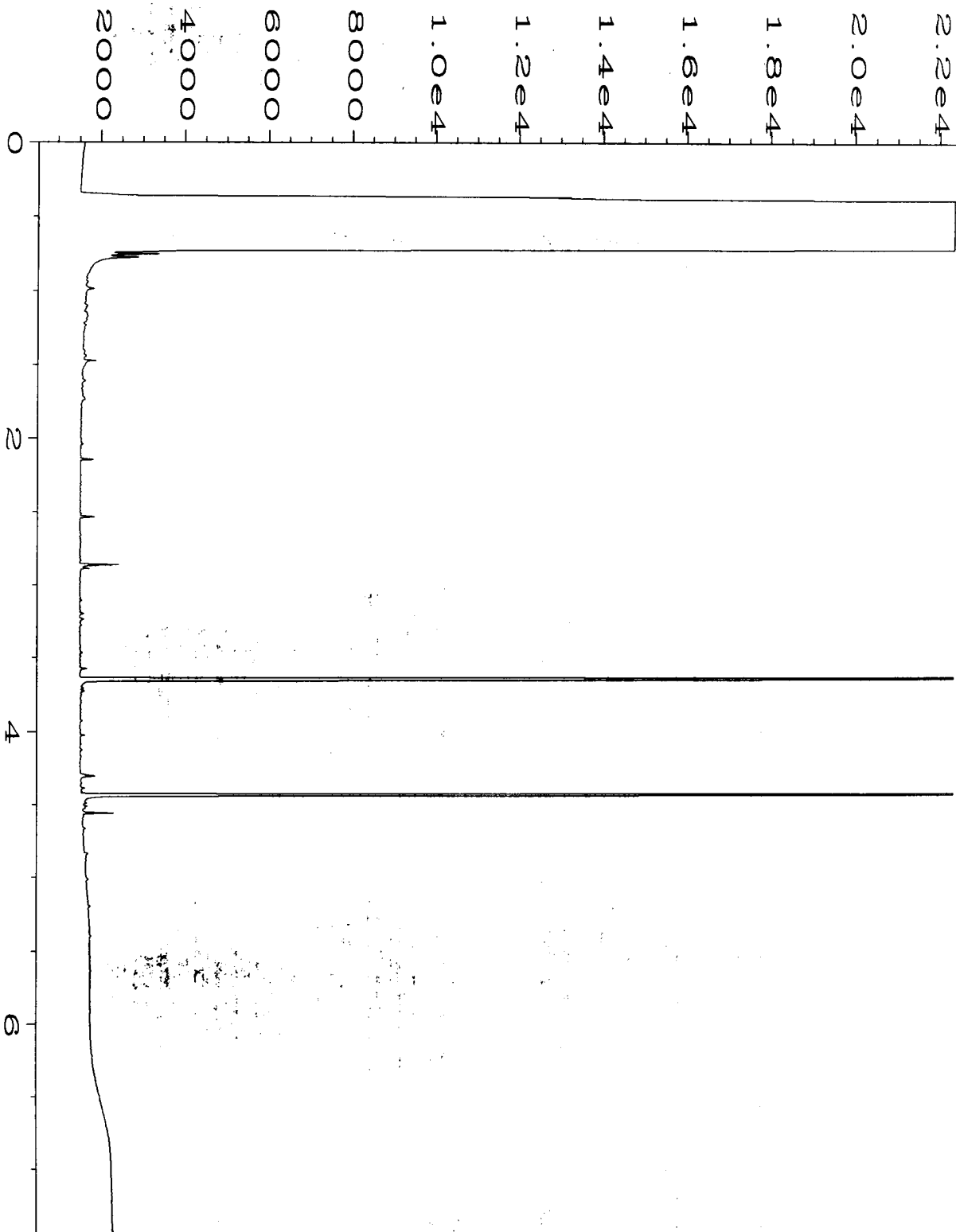
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\043F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 43 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-10 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:19 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:14 AM | | |



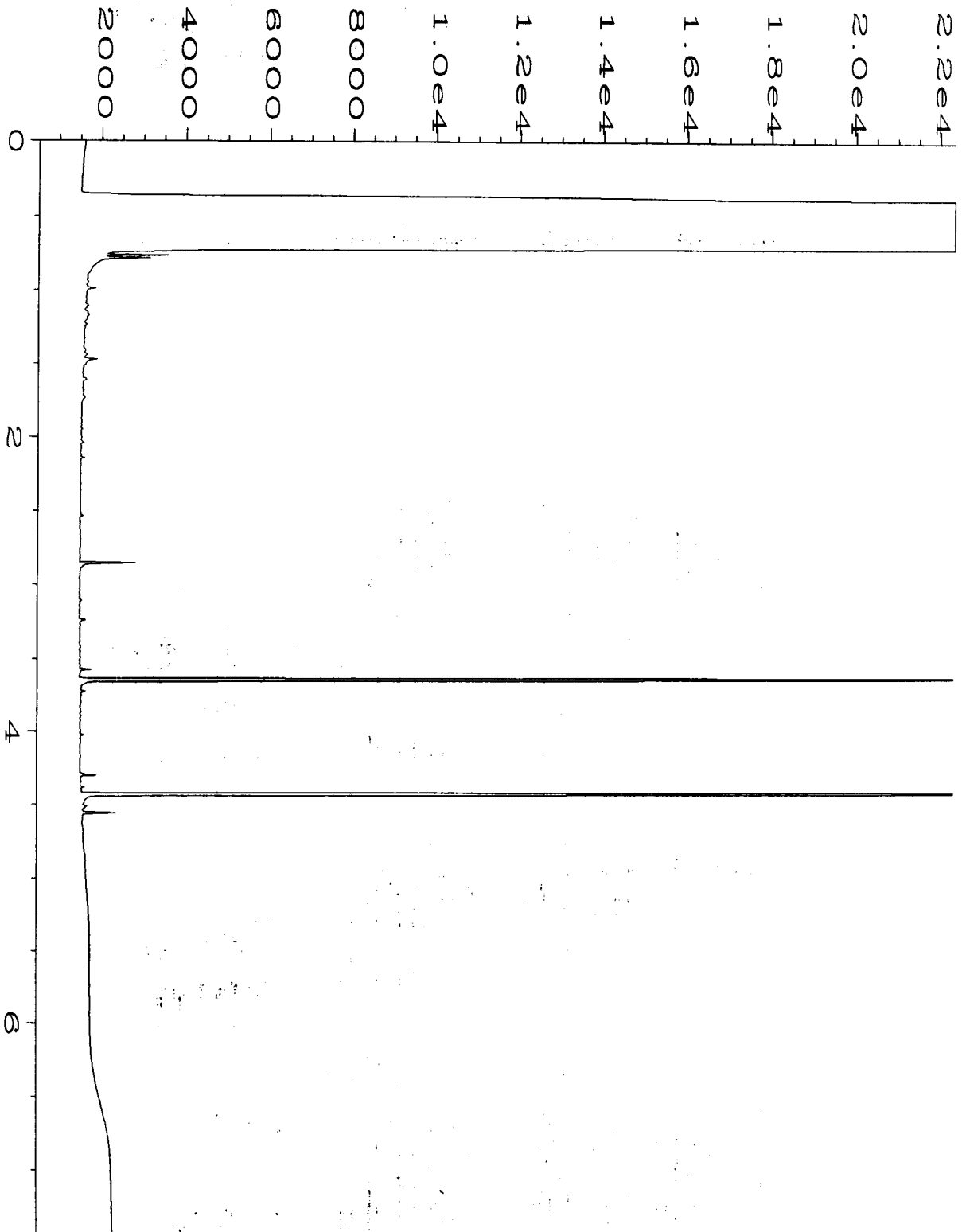
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\044F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 44 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-11 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:31 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:14 AM | | |



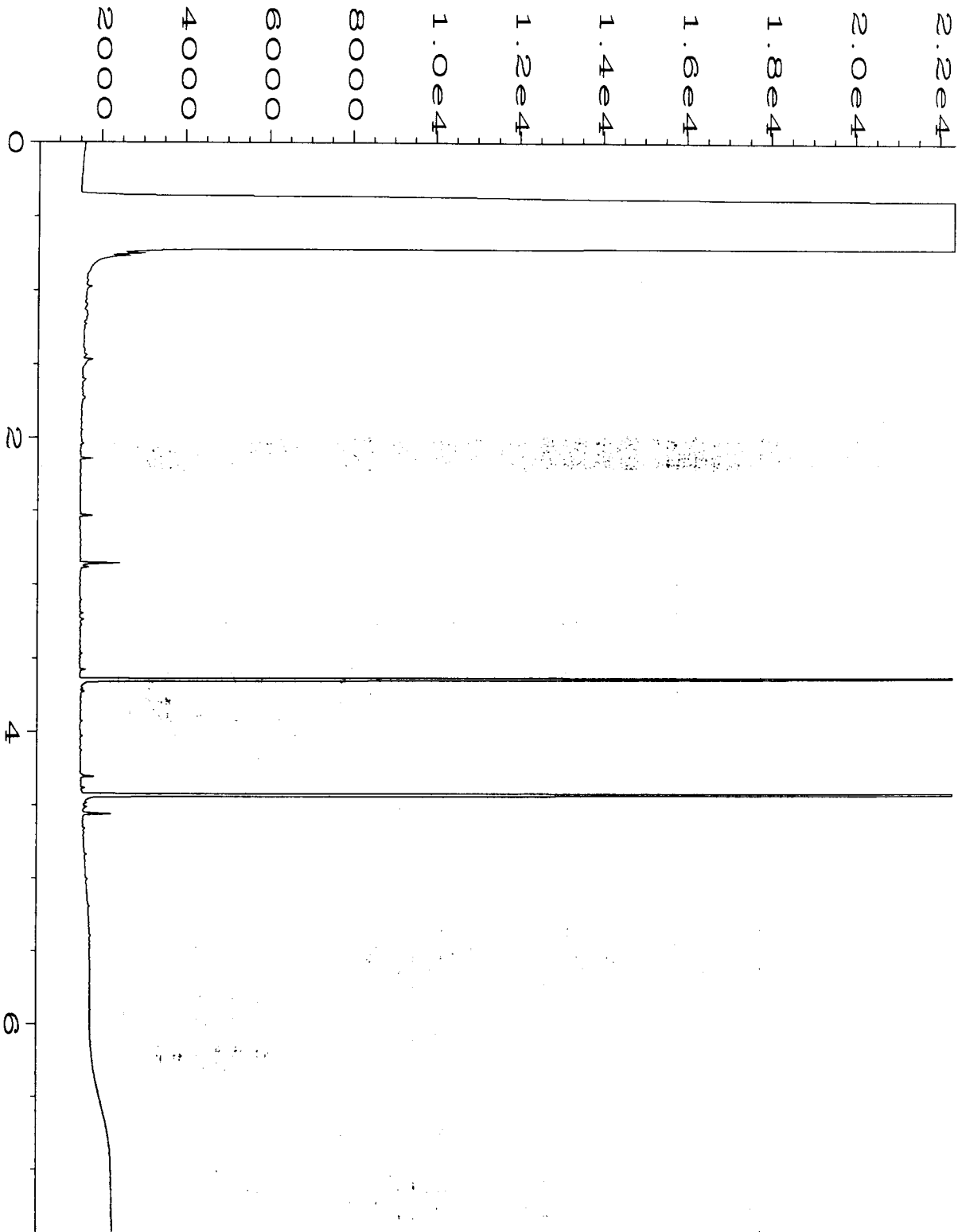
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\045F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 45 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-12 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:42 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:15 AM | | |



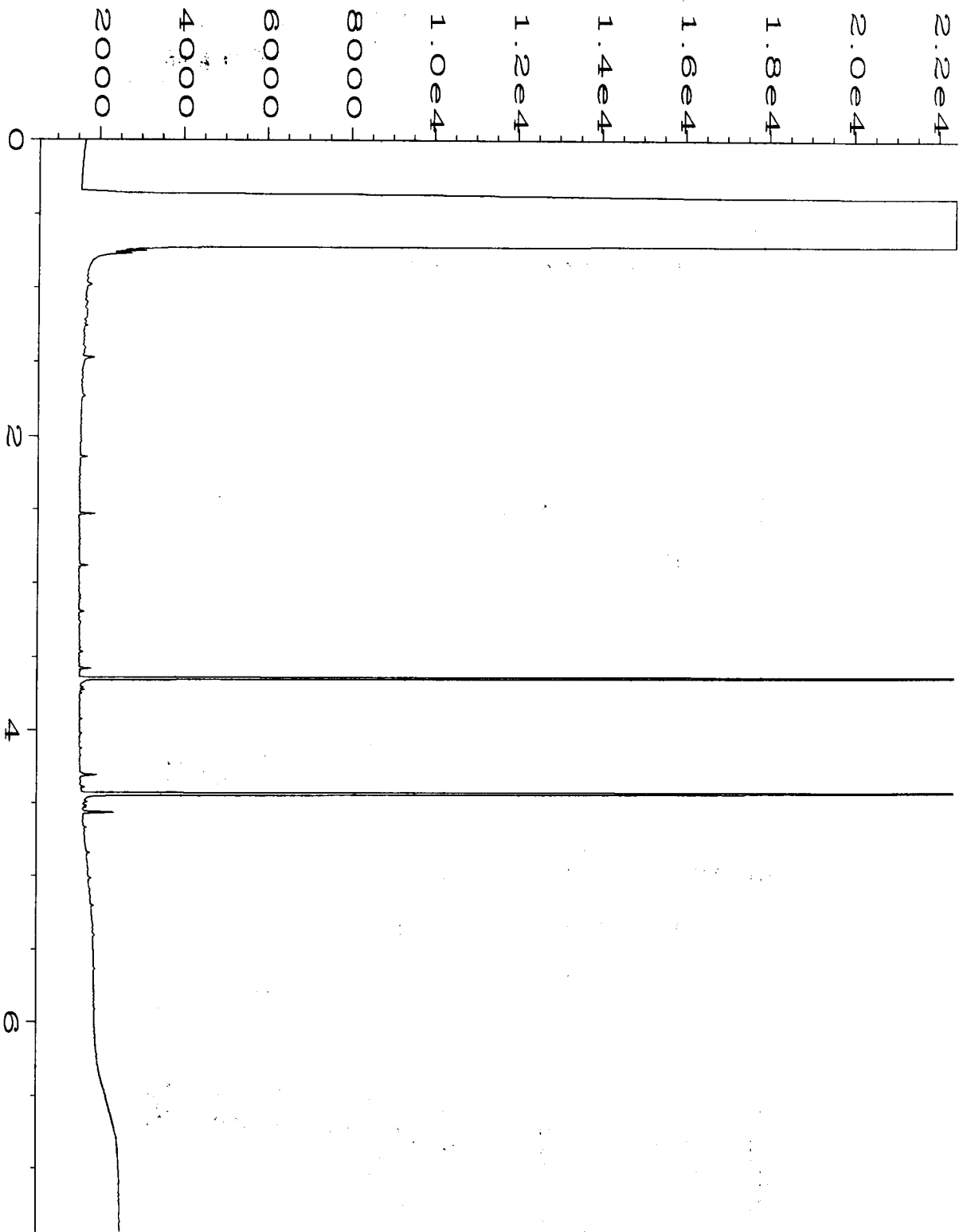
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| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\046F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 46 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-13 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 08:54 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:15 AM | | |



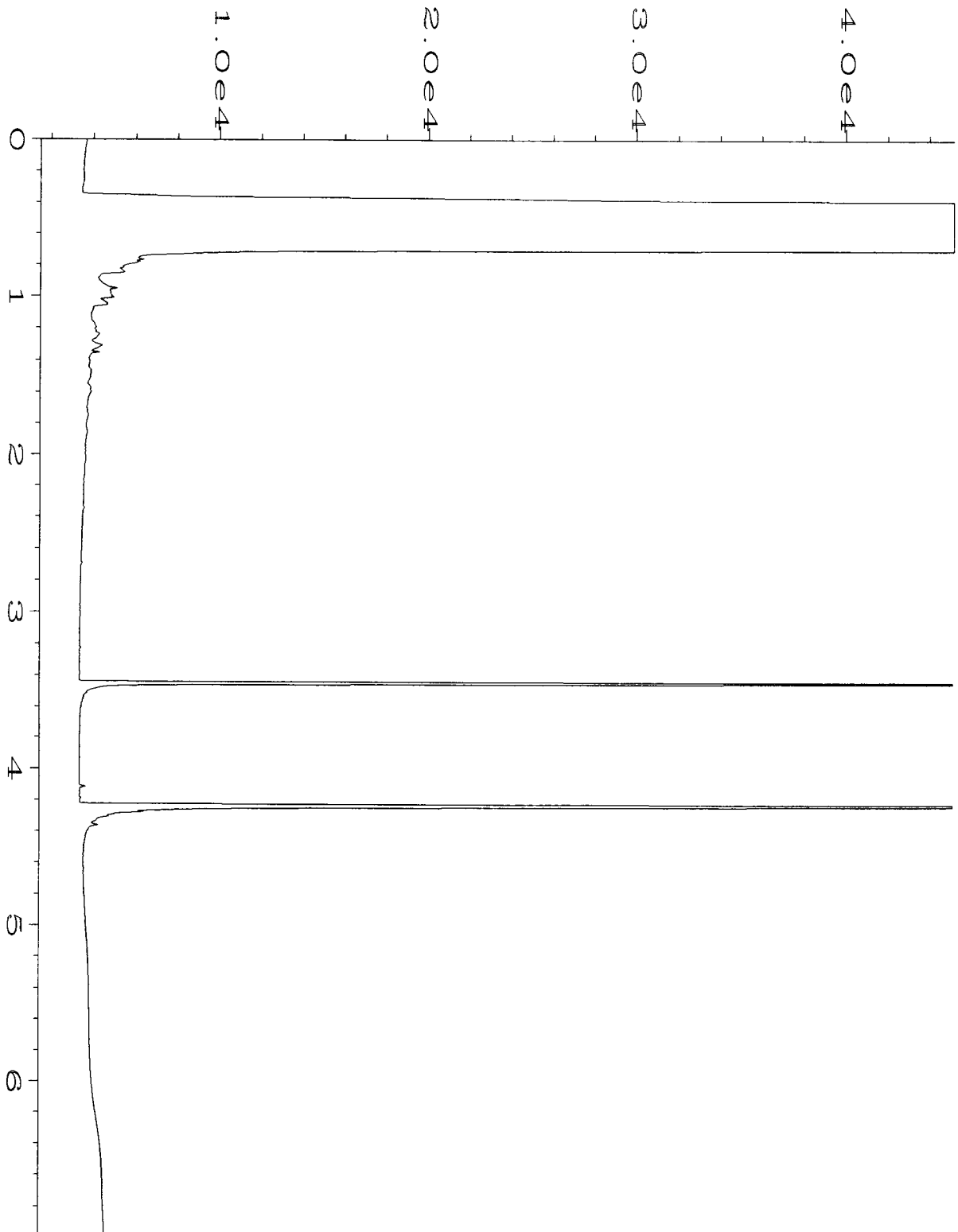
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| Operator | : mwdl | Vial Number | : 47 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-14 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 09:06 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:15 AM | | |



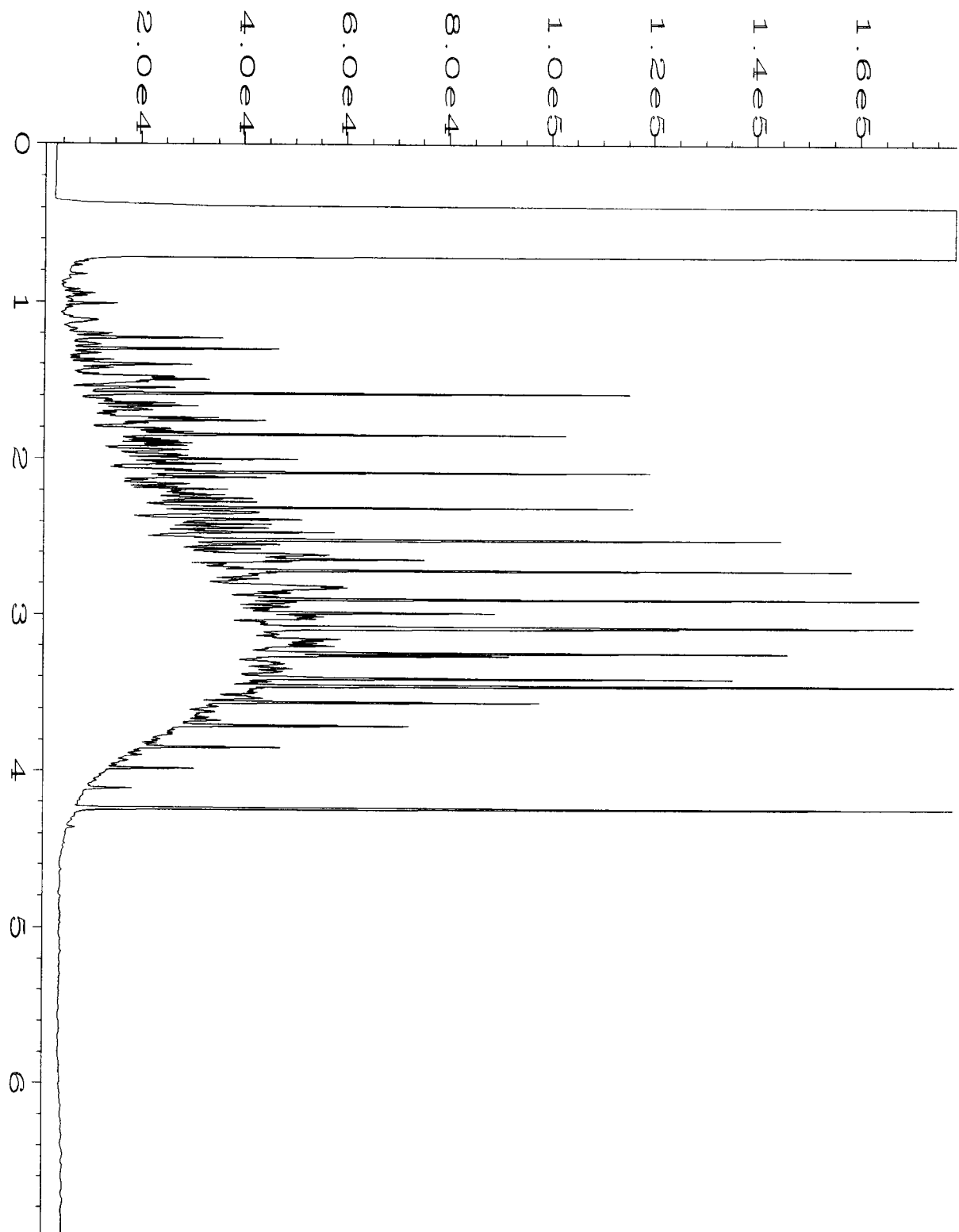
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| Operator | : mwdl | Vial Number | : 48 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505195-15 | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 09:18 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:15 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-12-15\025F0601.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-962 mb | Sequence Line | : 6 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 12 May 15 04:25 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 May 15 09:15 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\014F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 14 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-972 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 11:54 AM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\6\DATA\05-15-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 15 May 15 09:15 AM | Analysis Method | : DX.MTH |
| Report Created on: | 18 May 15 09:26 AM | | |

505195

SAMPLE CHAIN OF CUSTODY

ME 05/12/15

US3 / 2 / 103

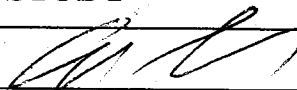
Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) 

PROJECT NAME/NO. 0914-001 PO #

REMARKS


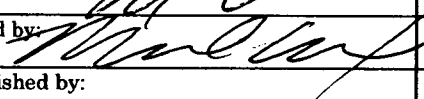
Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth <i>Depth</i> | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | | Notes | |
|--------------|-----------------|------------------------------|--------|--------------|--------------|--------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|------------------|---------------|-----------------|---------------------|--------------|-------|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | <i>Depth</i> | | |
| S-B01-C4-255 | C4 | 255 | 01 | 5/12/15 | 0720 | Soil | 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | <input checked="" type="checkbox"/> -analyze per LF 5/14/15 mg |
| S-B01-B4-255 | B4 | 255 | 02 | | 0735 | | 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| S-B01-A1-250 | A1 | 250 | 03 | | 0815 | | 6 | X | X | X | | | | | | | Standard TAT |
| S-B01-A2-250 | A2 | | 04 | | 0820 | | 6 | X | X | X | | | | | | | |
| S-B01-A3-250 | A3 | | 05 | | 0822 | | 6 | X | X | X | | | | | | | |
| S-B01-B1-250 | B1 | | 06 | | 0823 | | 6 | X | X | X | | | | | | | |
| S-B01-B2-250 | B2 | | 07 | | 0825 | | 6 | X | X | X | | | | | | | |
| S-B01-C2-250 | C2 | | 08 | | 0827 | | 6 | X | X | X | | | | | | | |
| S-B01-E2-250 | E2 | | 09 | | 0830 | | 6 | X | X | X | | | | | | | |
| S-B01-B3-250 | B3 | | 10 | | 0835 | | 6 | X | X | X | | | | | | | |

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 |
|--|----------------|---------|---------|------|
| Relinquished by:  | Liz Fisher | SES | 5/12/15 | 1410 |
| Received by:  | Moche E. Edsch | FLBm | | |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples received at 4°C

Friedman & Bruya, Inc. #505212

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 18, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 14, 2015 from the SOU_0914-001-12_20150514, F&BI 505212 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0518R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 14, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150514, F&BI 505212 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
505212 -01

SoundEarth Strategies
S-NSW01-C1-255

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/18/15

Date Received: 05/14/15

Project: SOU_0914-001-12_20150514, F&BI 505212

Date Extracted: 05/14/15

Date Analyzed: 05/14/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-NSW01-C1-255 505212-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |
| Method Blank 05-0941 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 77 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/18/15

Date Received: 05/14/15

Project: SOU_0914-001-12_20150514, F&BI 505212

Date Extracted: 05/14/15

Date Analyzed: 05/14/15

**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 48-168) |
|-----------------------------------|--|---|---|
| S-NSW01-C1-255 505212-01 | <50 | <250 | 104 |
| Method Blank 05-968 MB | <50 | <250 | 106 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/18/15

Date Received: 05/14/15

Project: SOU_0914-001-12_20150514, F&BI 505212

**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: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 0.5 | 78 | 78 | 69-120 | 0 |
| Toluene | mg/kg (ppm) | 0.5 | 89 | 89 | 70-117 | 0 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 89 | 89 | 65-123 | 0 |
| Xylenes | mg/kg (ppm) | 1.5 | 88 | 89 | 66-120 | 1 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 105 | 71-131 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/18/15

Date Received: 05/14/15

Project: SOU_0914-001-12_20150514, F&BI 505212

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505221-01 (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 | <50 | 100 | 106 | 73-135 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 104 | 74-139 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

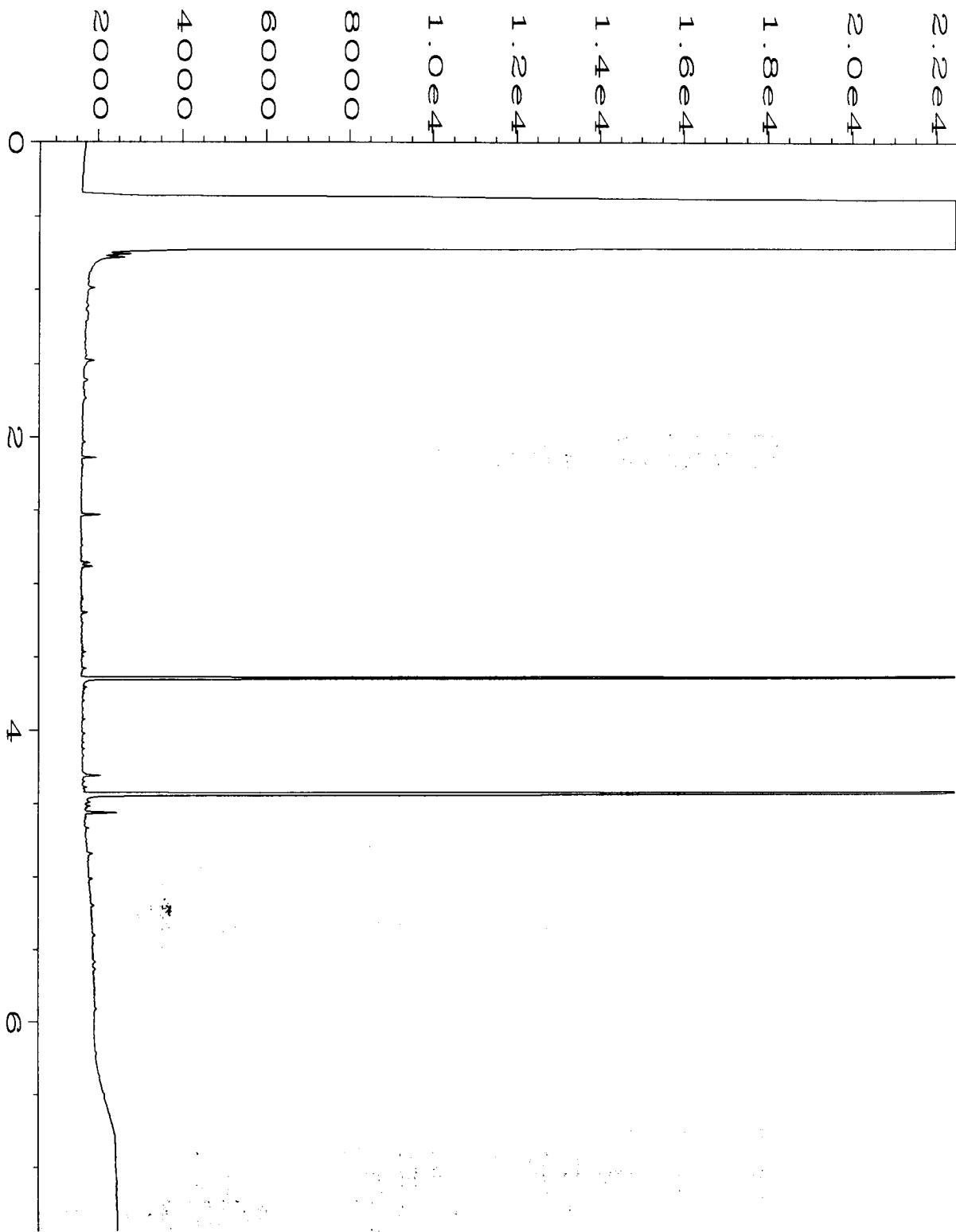
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

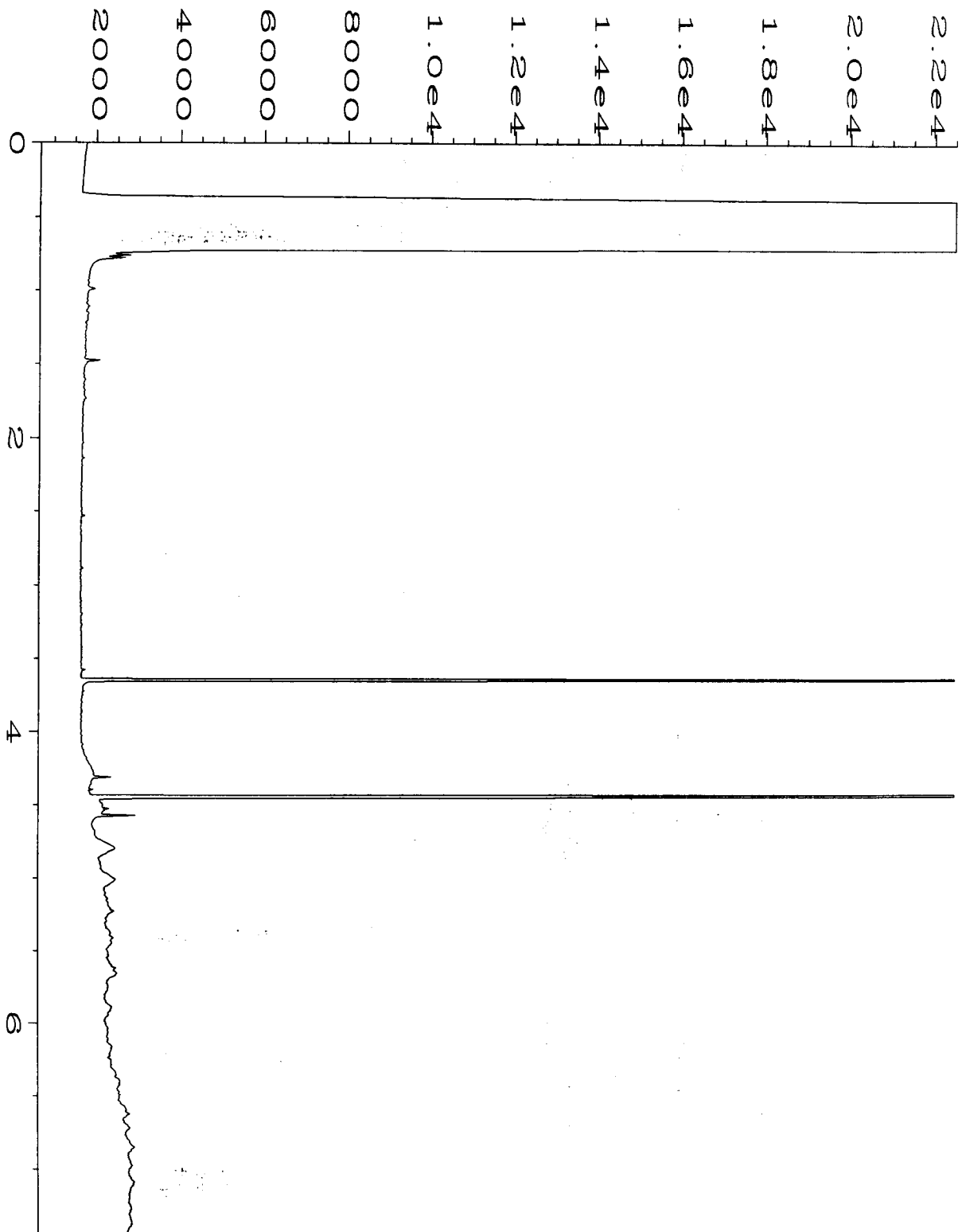
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

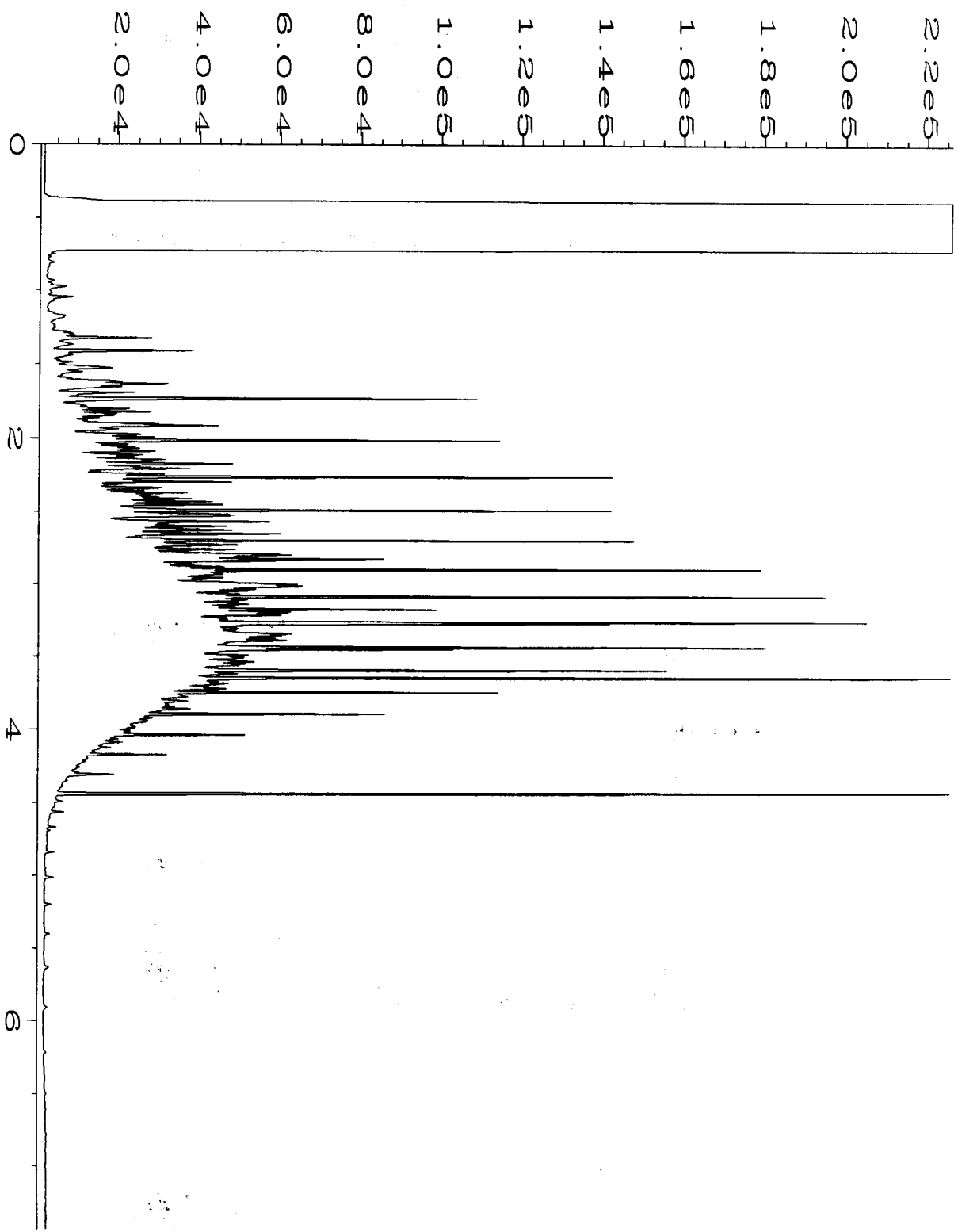
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-14-15\012F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 12 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 505212-01 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 May 15 11:07 AM | Analysis Method | : DX.MTH |
| Report Created on: | 14 May 15 11:45 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-14-15\006F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 6 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-968 mb | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 May 15 09:59 AM | Analysis Method | : DX.MTH |
| Report Created on: | 14 May 15 11:45 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\05-14-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 14 May 15 09:32 AM | Analysis Method | : DX.MTH |
| Report Created on: | 14 May 15 11:45 AM | | |

505212

SAMPLE CHA OF CUSTODY

ME 05/14/15

051

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0914-001-12 PO #

REMARKS

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|--------------------------|-----------------|--------------|-----------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-NSIN-CI-255 | CI | 255 | 01 A-F | 5/13/15 | | SOIL | 6 | X | X | Y | | | | | | | |
| Samples received at 4 °C | | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|------------|----------|---------|-------|
| Relinquished by: <i>[Signature]</i> | Liz Forbes | SES | 5/14/15 | 07:00 |
| Received by: <i>[Signature]</i> | S. Osborn | PTB, Inc | 5/14/15 | 07:02 |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #505407

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 28, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 22, 2015 from the SOU_0914-001-12_20150522, F&BI 505407 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0528R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 22, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150522, F&BI 505407 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505407 -01 | S-NSW01-A1-250 |
| 505407 -02 | S-NSW01-B1-250 |
| 505407 -03 | S-NSW01-C1-250 |
| 505407 -04 | S-ESW01-A1-250 |

The benzene concentration for samples S-NSW01-C1-250 and S-ESW01-A1-250 was reported below the lowest calibration standard. The data were qualified accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/28/15

Date Received: 05/22/15

Project: SOU_0914-001-12_20150522, F&BI 505407

Date Extracted: 05/22/15

Date Analyzed: 05/22/15 and 05/26/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-NSW01-A1-250 505407-01 | <0.02 | <0.02 | <0.02 | <0.06 | 4.6 | 88 |
| S-NSW01-B1-250 505407-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| S-NSW01-C1-250 505407-03 1/5 | <0.02 j | <0.1 | 3.1 | 9.5 | 790 | 101 |
| S-ESW01-A1-250 505407-04 1/5 | <0.02 j | <0.1 | 2.0 | 5.3 | 560 | 101 |
| Method Blank 05-1237 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/28/15

Date Received: 05/22/15

Project: SOU_0914-001-12_20150522, F&BI 505407

Date Extracted: 05/22/15

Date Analyzed: 05/22/15

**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> (% Recovery) (Limit 56-165) |
|-----------------------------------|--|---|--|
| S-NSW01-A1-250 505407-01 | <50 | <250 | 94 |
| S-NSW01-B1-250 505407-02 | <50 | <250 | 90 |
| S-NSW01-C1-250 505407-03 | 130 x | <250 | 100 |
| S-ESW01-A1-250 505407-04 | 180 x | <250 | 99 |
| Method Blank 05-1009 MB | <50 | <250 | 105 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/28/15

Date Received: 05/22/15

Project: SOU_0914-001-12_20150522, F&BI 505407

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Benzene | mg/kg (ppm) | 0.5 | 90 | 77 | 69-120 | 16 |
| Toluene | mg/kg (ppm) | 0.5 | 94 | 92 | 70-117 | 2 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 96 | 93 | 65-123 | 3 |
| Xylenes | mg/kg (ppm) | 1.5 | 95 | 92 | 66-120 | 3 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 100 | 71-131 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/28/15

Date Received: 05/22/15

Project: SOU_0914-001-12_20150522, F&BI 505407

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505396-05 (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 | <50 | 100 | 97 | 63-146 | 3 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 108 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

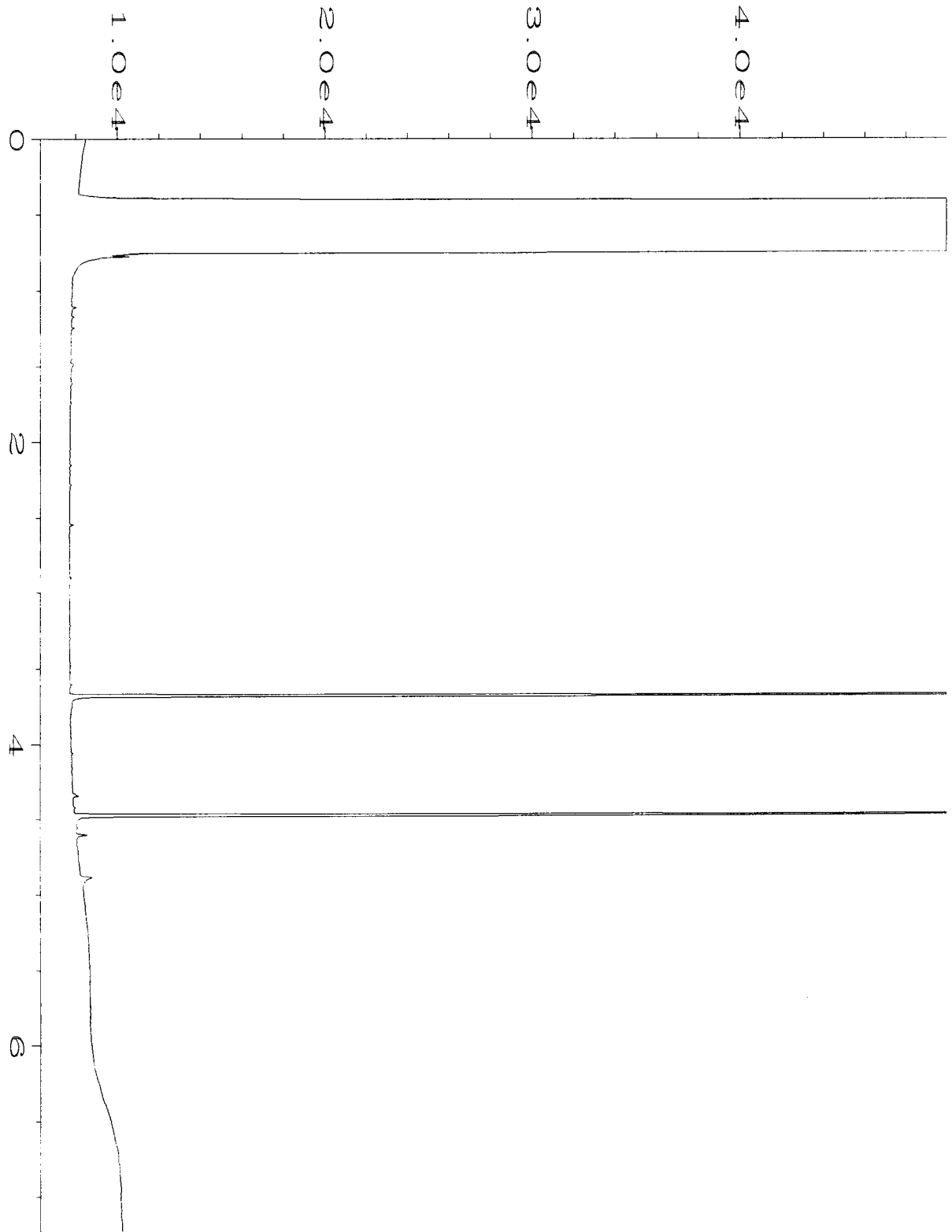
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

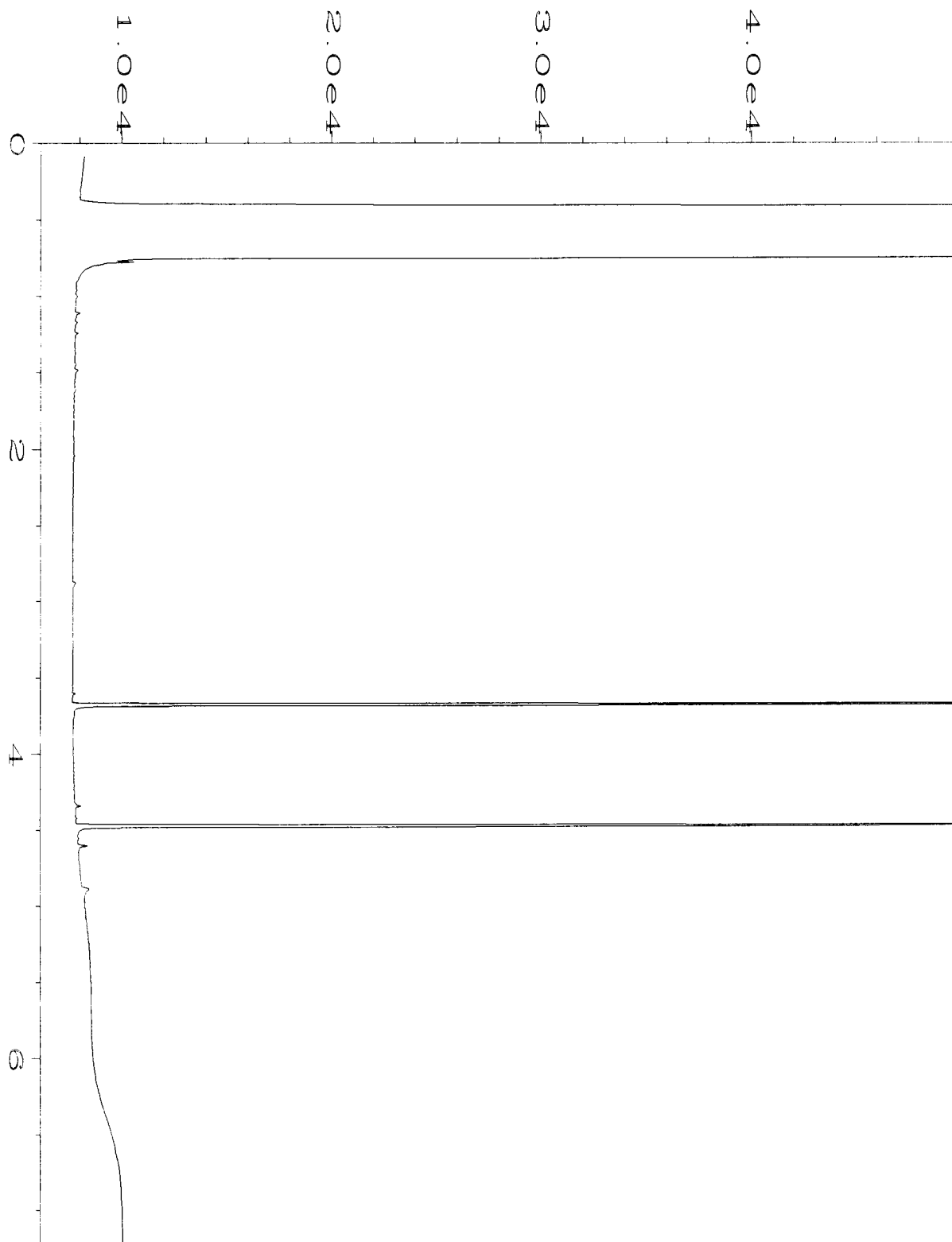
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

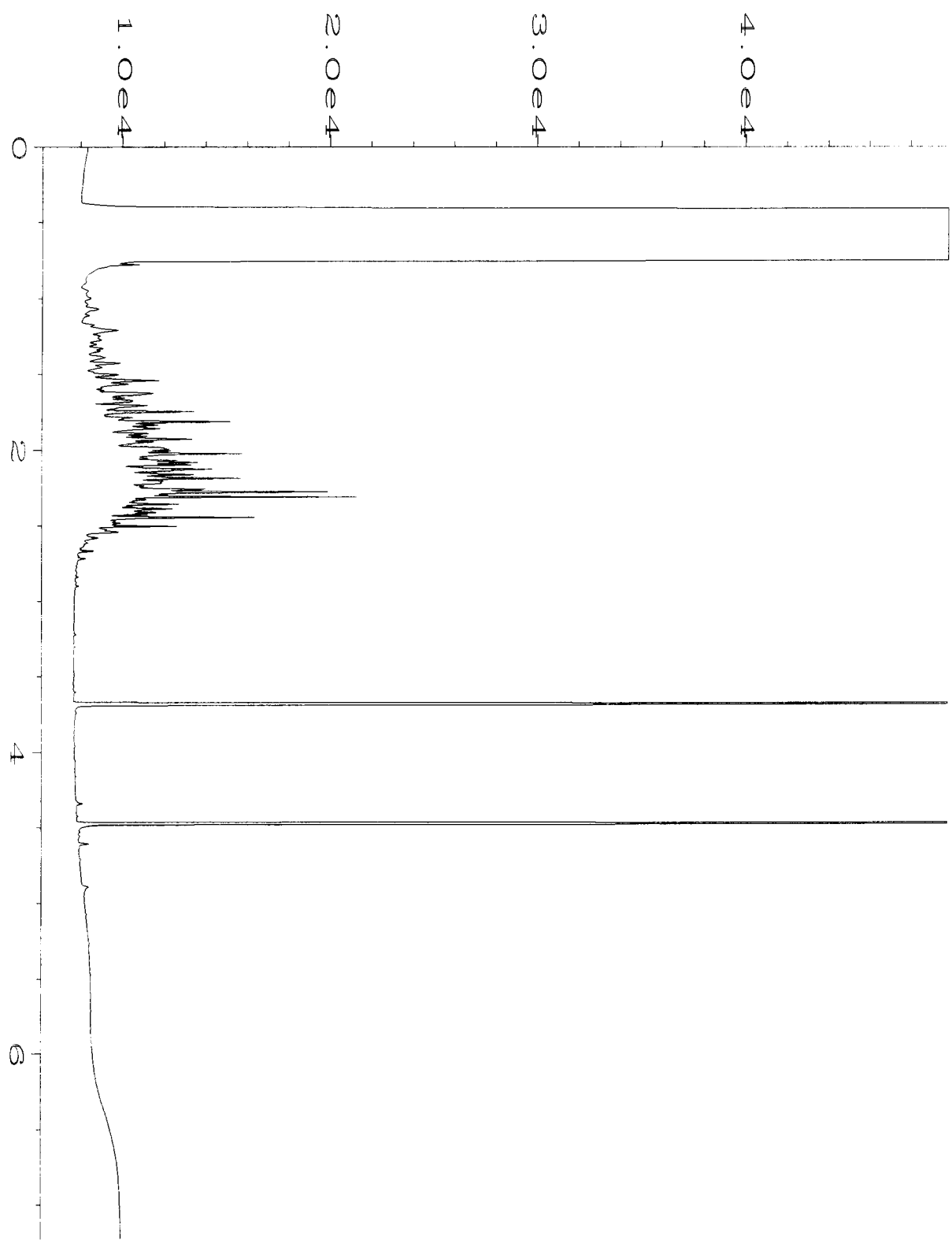
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



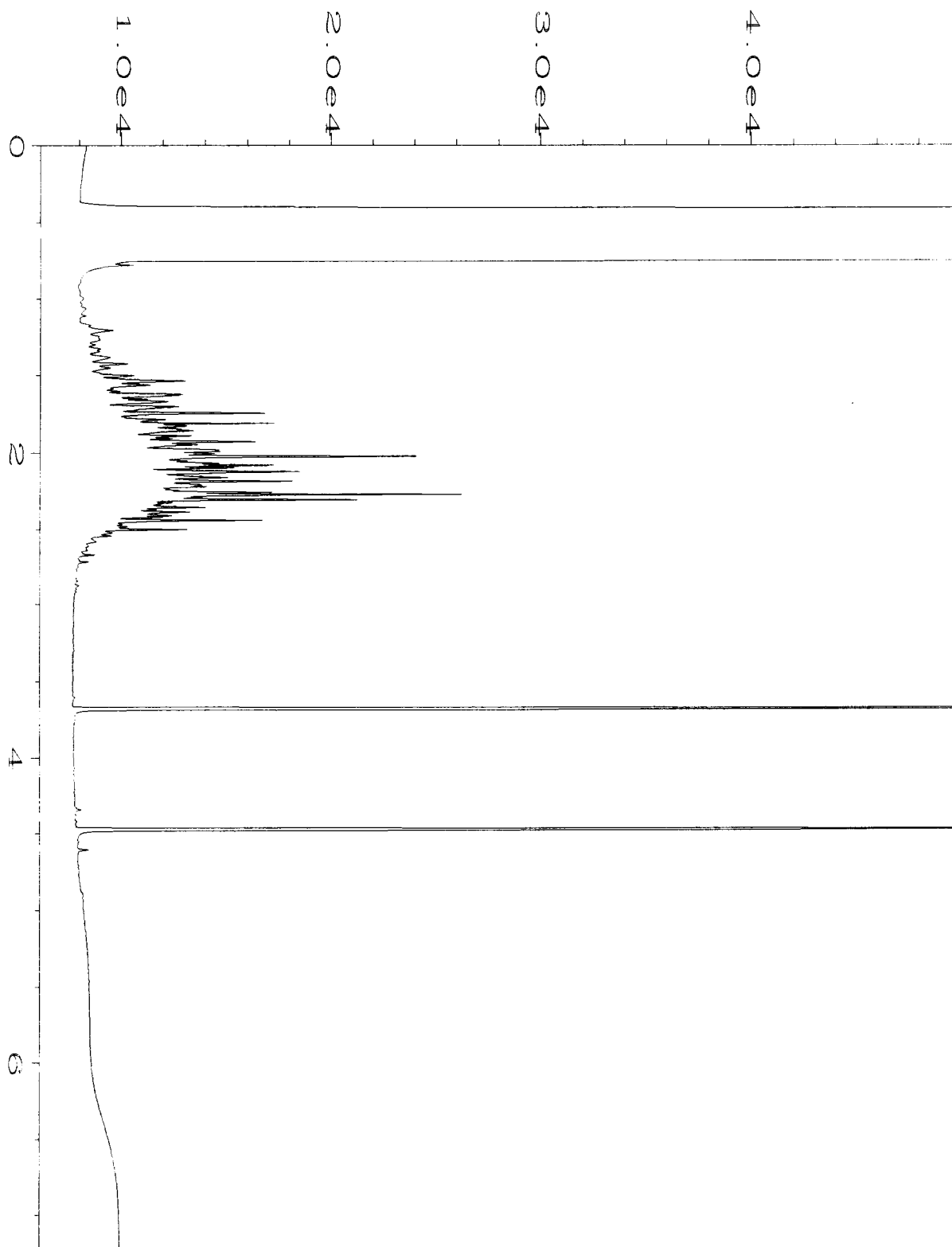
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\056F0901.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 56 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505407-01 | Sequence Line | : 9 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 22 May 15 08:23 PM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:09 AM | | |



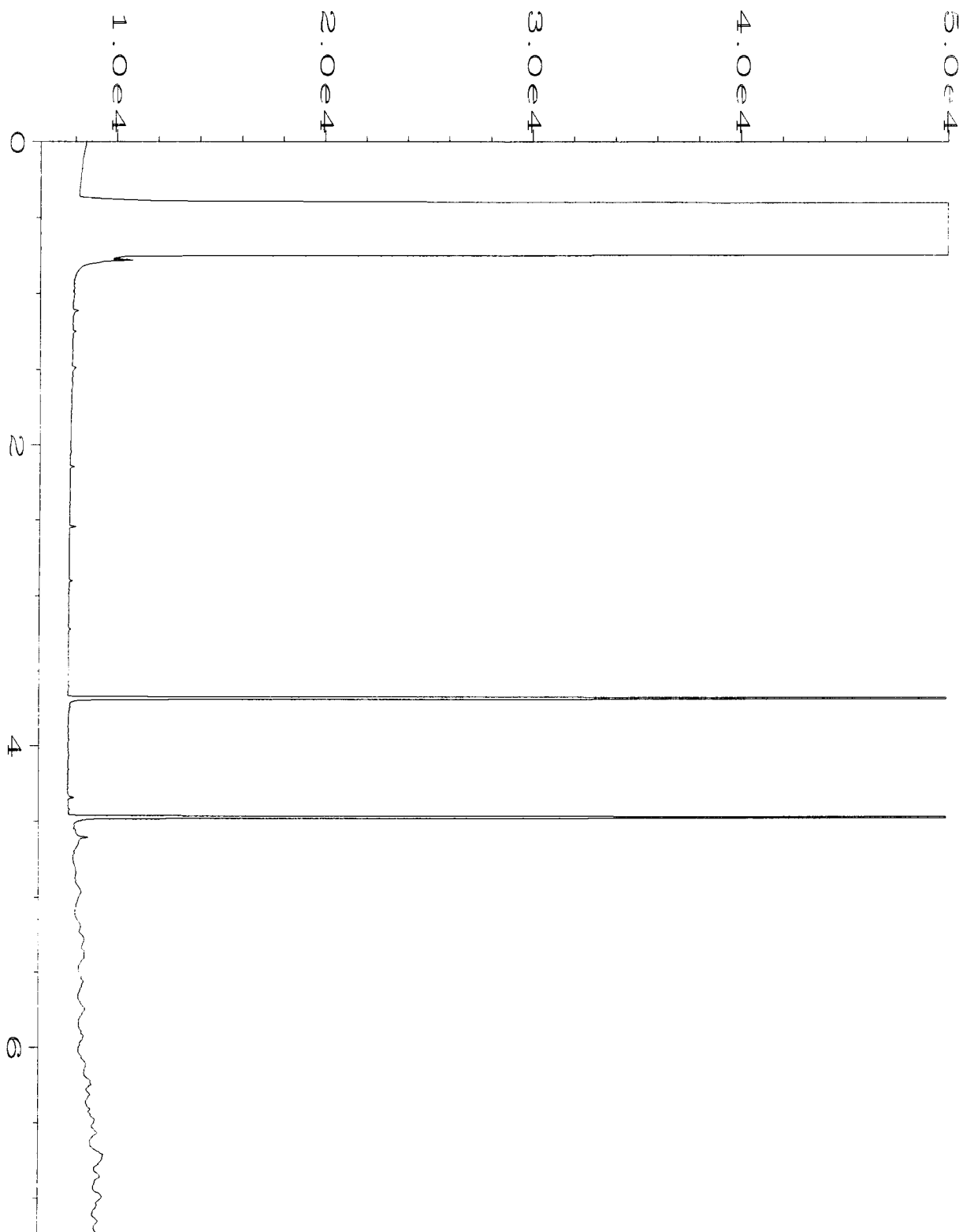
| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\057F0901.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 57 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505407-02 | Sequence Line | : 9 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 22 May 15 08:34 PM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:09 AM | | |



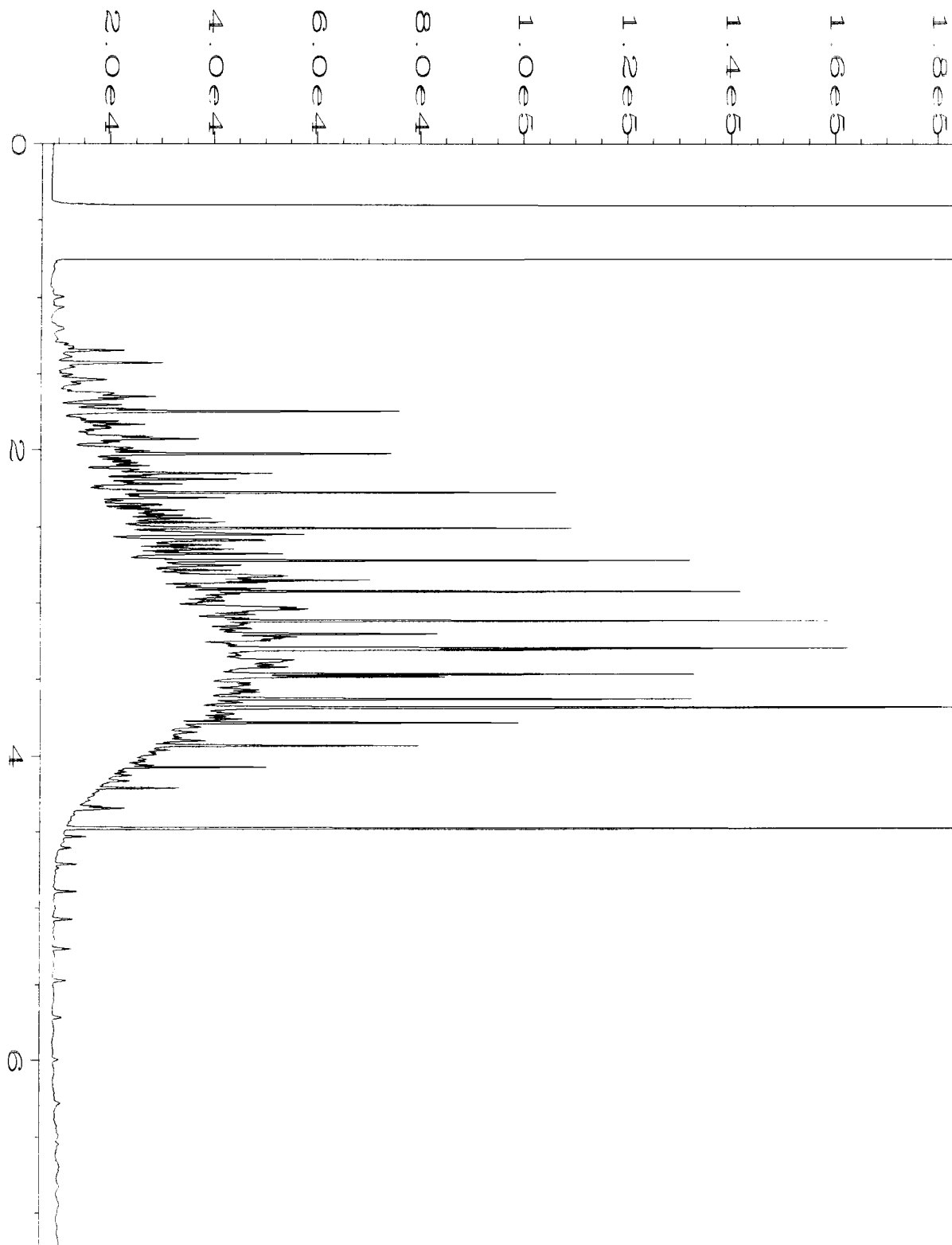
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\058F0901.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 58 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505407-03 | Sequence Line | : 9 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 22 May 15 08:45 PM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:09 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\059F0901.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 59 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505407-04 | Sequence Line | : 9 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 22 May 15 08:56 PM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:09 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\033F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 33 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1009 mb | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 22 May 15 03:43 PM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:04 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-22-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 22 May 15 09:35 AM | Analysis Method | : DX.MTH |
| Report Created on: | 26 May 15 10:04 AM | | |

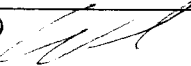
505407

SAMPLE CHA OF CUSTODY

ME 05/22/15

VSI / 1A01

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) 

PROJECT NAME/NO. 0914-001-12 PO # _____

REMARKS _____

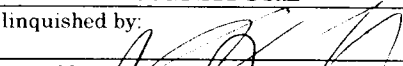
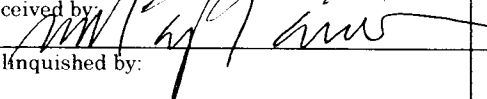
Page # _____ of _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth <i>ft</i> | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|------------------|-----------------|---------------------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-NSW01-A1-250 | A1 | 250 | 01E | 5/22/15 | 0830 | Soil | 5 | X | X | X | | | | | | |
| S-NSW01-B1-250 | B1 | | 02 | | 0840 | | 5 | X | X | X | | | | | | |
| S-NSW01-C1-250 | C1 | | 03 | | 1010 | | 5 | X | X | X | | | | | | |
| S-ESW01-A1-250 | A1 | | 04 | | 1120 | | 5 | X | X | X | | | | | | |
| _____ | | | | | | | | | | | | | | | | |

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 |
|--|------------|---------------------------------|---------|------|
| Relinquished by:  | Lin Takas | SES | 5/21/15 | 1415 |
| Received by:  | Rohan phan | FCBI | 5/22/15 | 1410 |
| Relinquished by: | | | | |
| Received by: | | Samples received at <u>5</u> °C | | |

Friedman & Bruya, Inc. #505424

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 29, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 26, 2015 from the SOU_0914-001-12_20150526, F&BI 505424 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0529R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 26, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150526, F&BI 505424 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505424 -01 | S-ESW01-A2-250 |
| 505424 -02 | S-ESW01-A3-250 |
| 505424 -03 | S-NSW01-A1-245 |
| 505424 -04 | S-NSW01-B1-245 |
| 505424 -05 | S-NSW01-C1-245 |

The benzene concentration for sample S-ESW01-A2-250 was reported below the lowest calibration standard. The data were qualified accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/29/15

Date Received: 05/26/15

Project: SOU_0914-001-12_20150526, F&BI 505424

Date Extracted: 05/26/15

Date Analyzed: 05/26/15 and 05/27/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-ESW01-A2-250 505424-01 1/5 | <0.02 j | 1.6 | 1.6 | 5.8 | 700 | 89 |
| S-ESW01-A3-250 505424-02 | <0.02 | <0.02 | <0.02 | 0.12 | 14 | 89 |
| S-NSW01-A1-245 505424-03 | 0.045 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| S-NSW01-B1-245 505424-04 1/10 | 0.30 | <0.2 | 4.0 | 20 | 800 | 80 |
| S-NSW01-C1-245 505424-05 | <0.02 | <0.02 | 0.027 | <0.06 | <2 | 88 |
| Method Blank 05-1239 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/29/15

Date Received: 05/26/15

Project: SOU_0914-001-12_20150526, F&BI 505424

Date Extracted: 05/26/15

Date Analyzed: 05/26/15

**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> (% Recovery) (Limit 56-165) |
|-----------------------------------|--|---|--|
| S-ESW01-A2-250 505424-01 | 160 x | <250 | 93 |
| S-ESW01-A3-250 505424-02 | <50 | <250 | 104 |
| S-NSW01-A1-245 505424-03 | <50 | <250 | 99 |
| S-NSW01-B1-245 505424-04 | <50 | <250 | 102 |
| S-NSW01-C1-245 505424-05 | <50 | <250 | 104 |
| Method Blank 05-1013 MB | <50 | <250 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/29/15

Date Received: 05/26/15

Project: SOU_0914-001-12_20150526, F&BI 505424

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 505423-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 79 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 92 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 95 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 94 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/29/15

Date Received: 05/26/15

Project: SOU_0914-001-12_20150526, F&BI 505424

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505408-01 (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 | <50 | 101 | 97 | 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 | 107 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

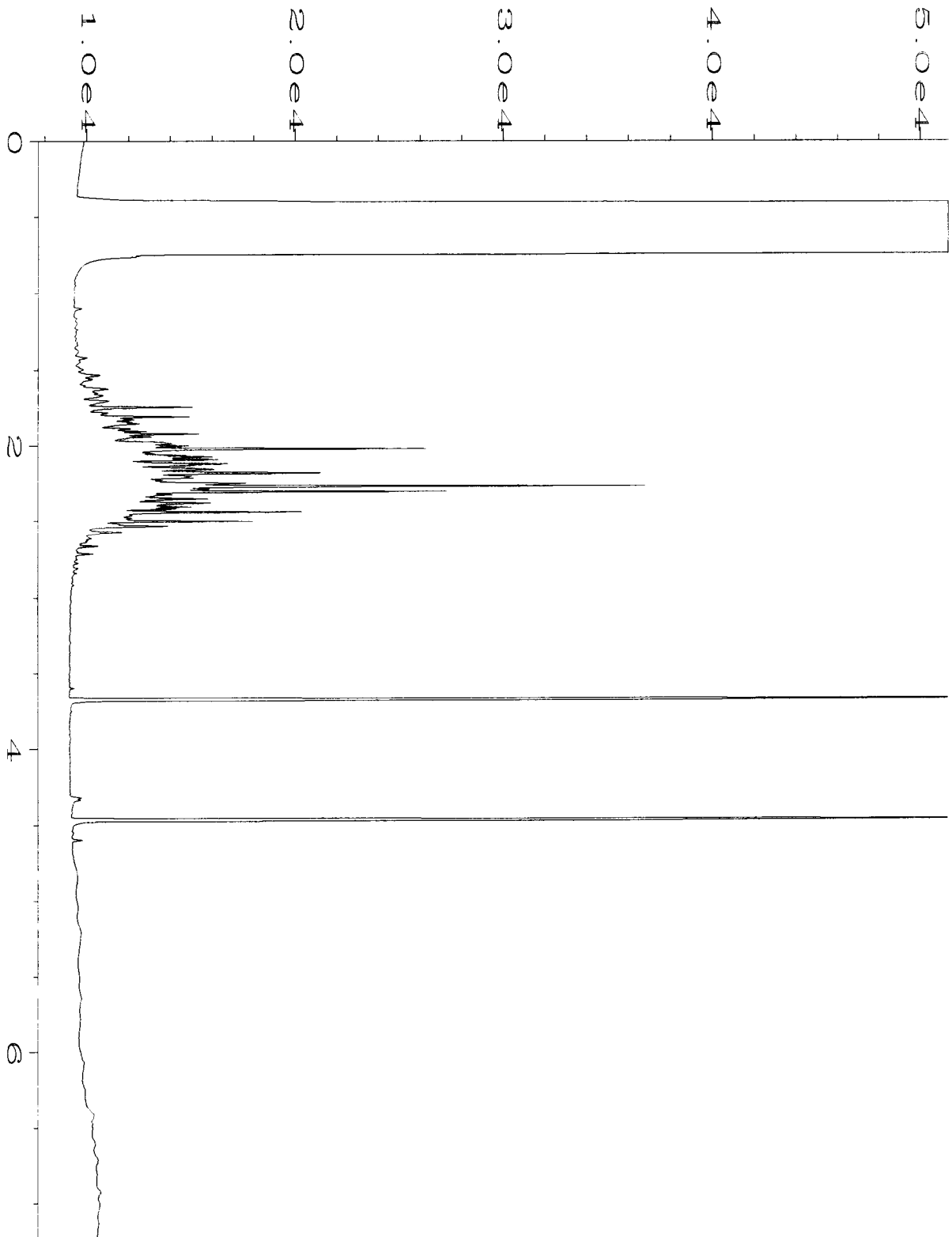
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

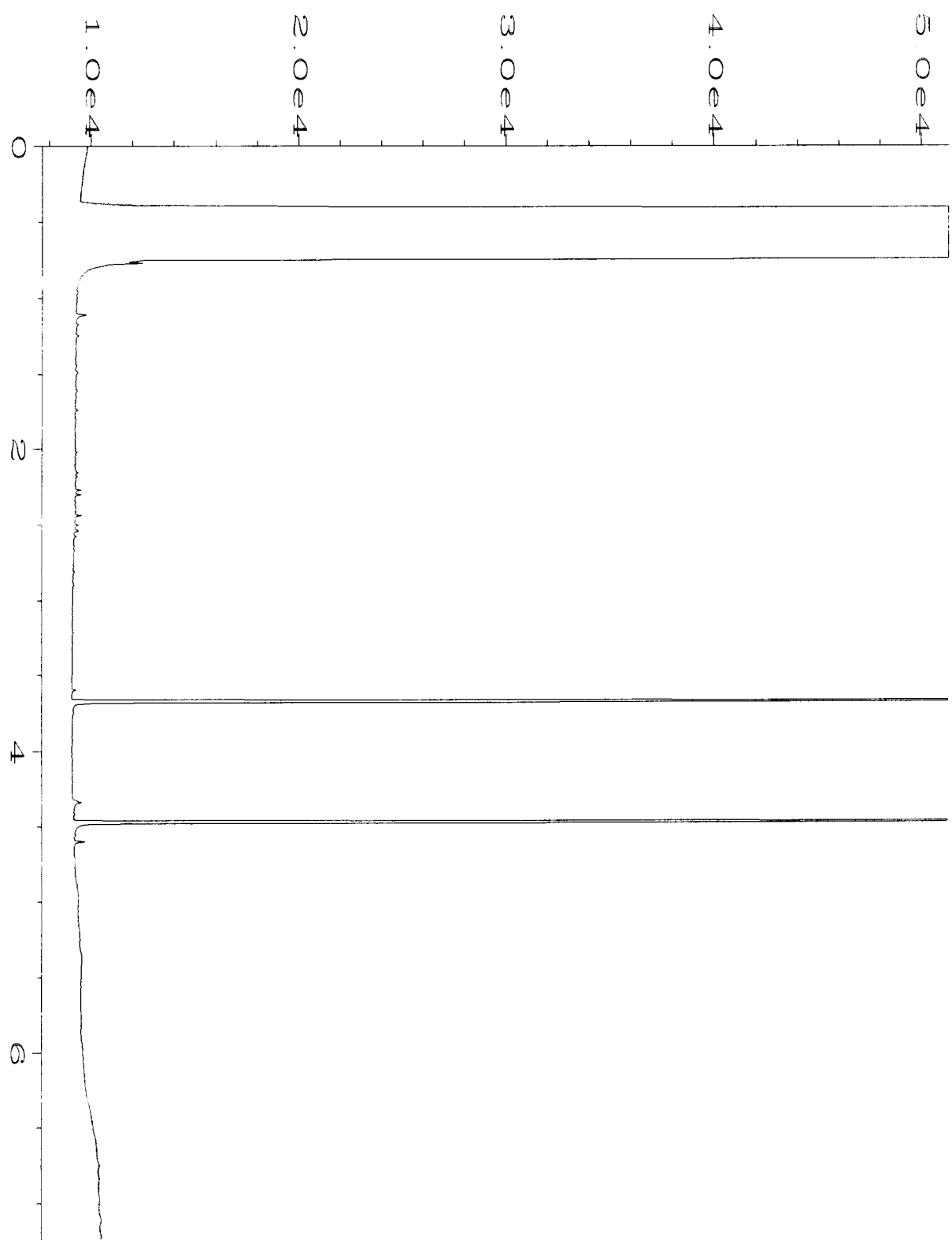
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

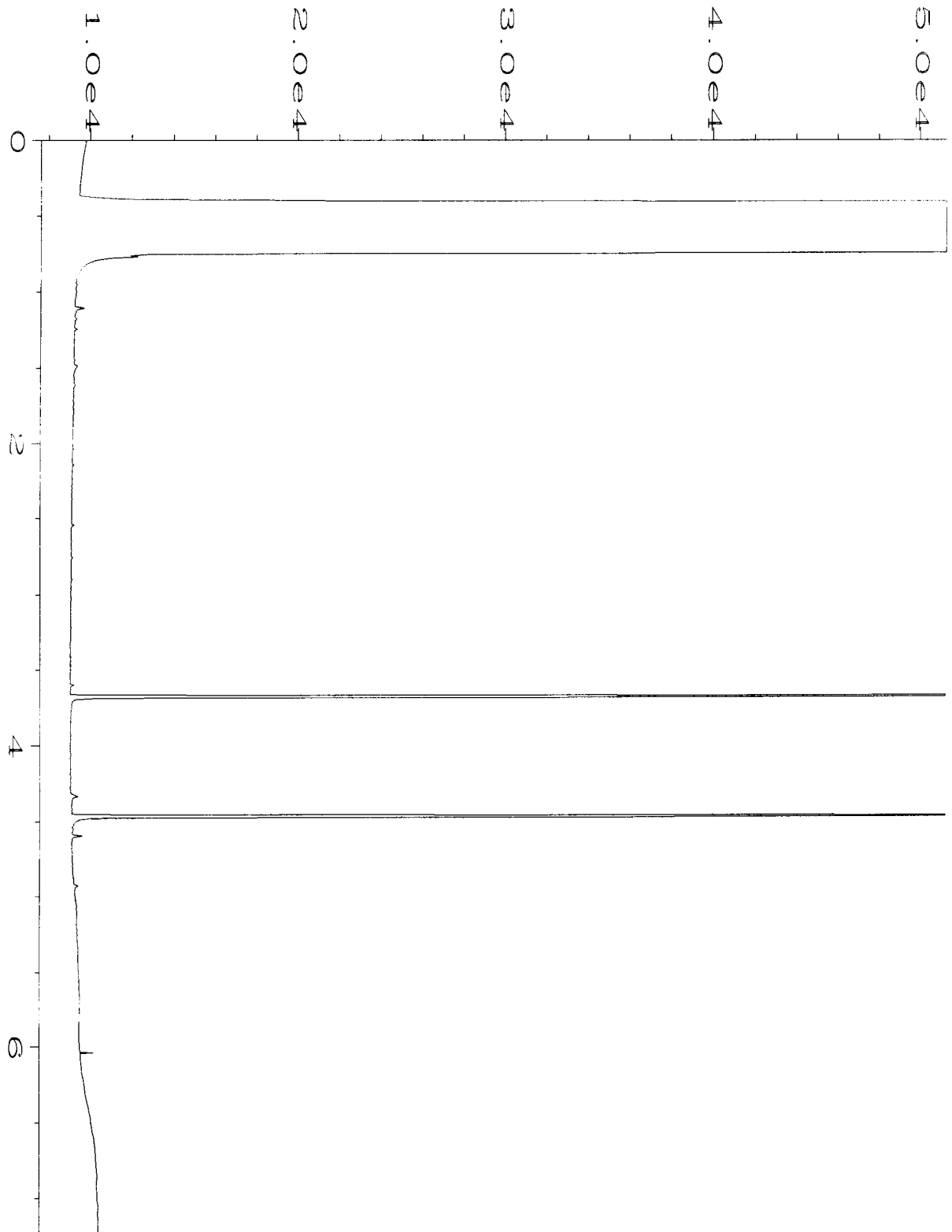
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



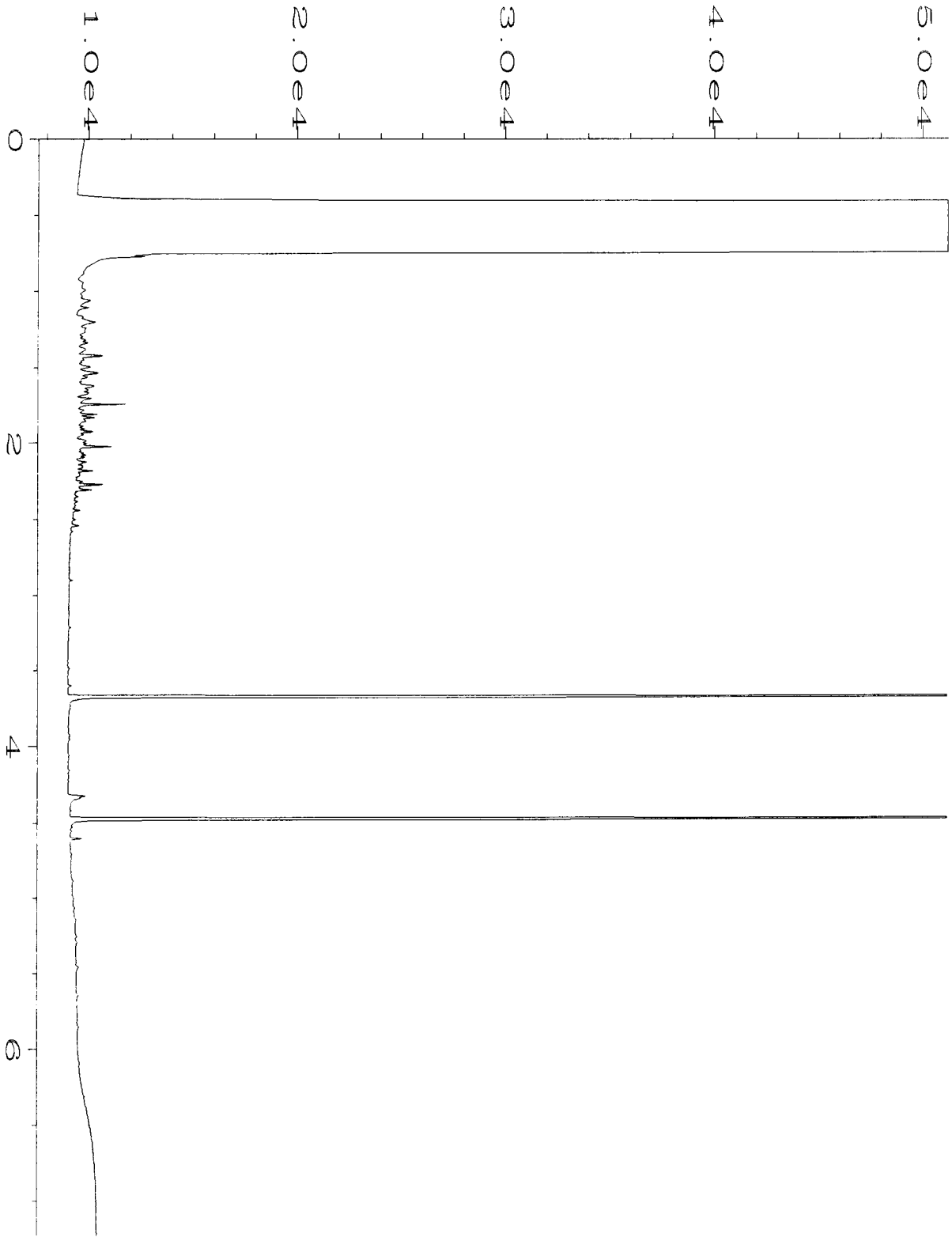
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\033F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 33 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505424-01 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 06:45 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



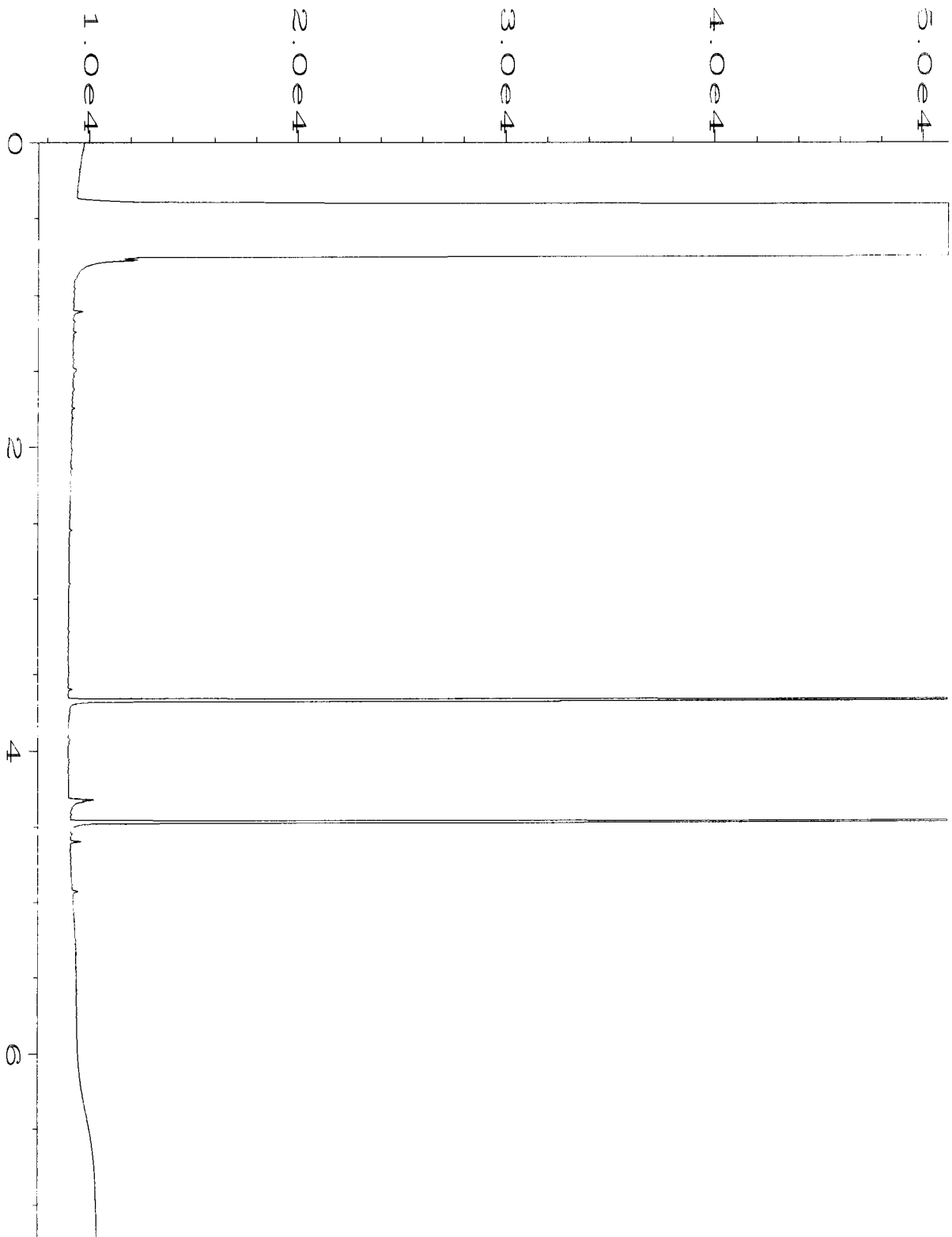
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\034F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 34 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505424-02 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 06:57 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



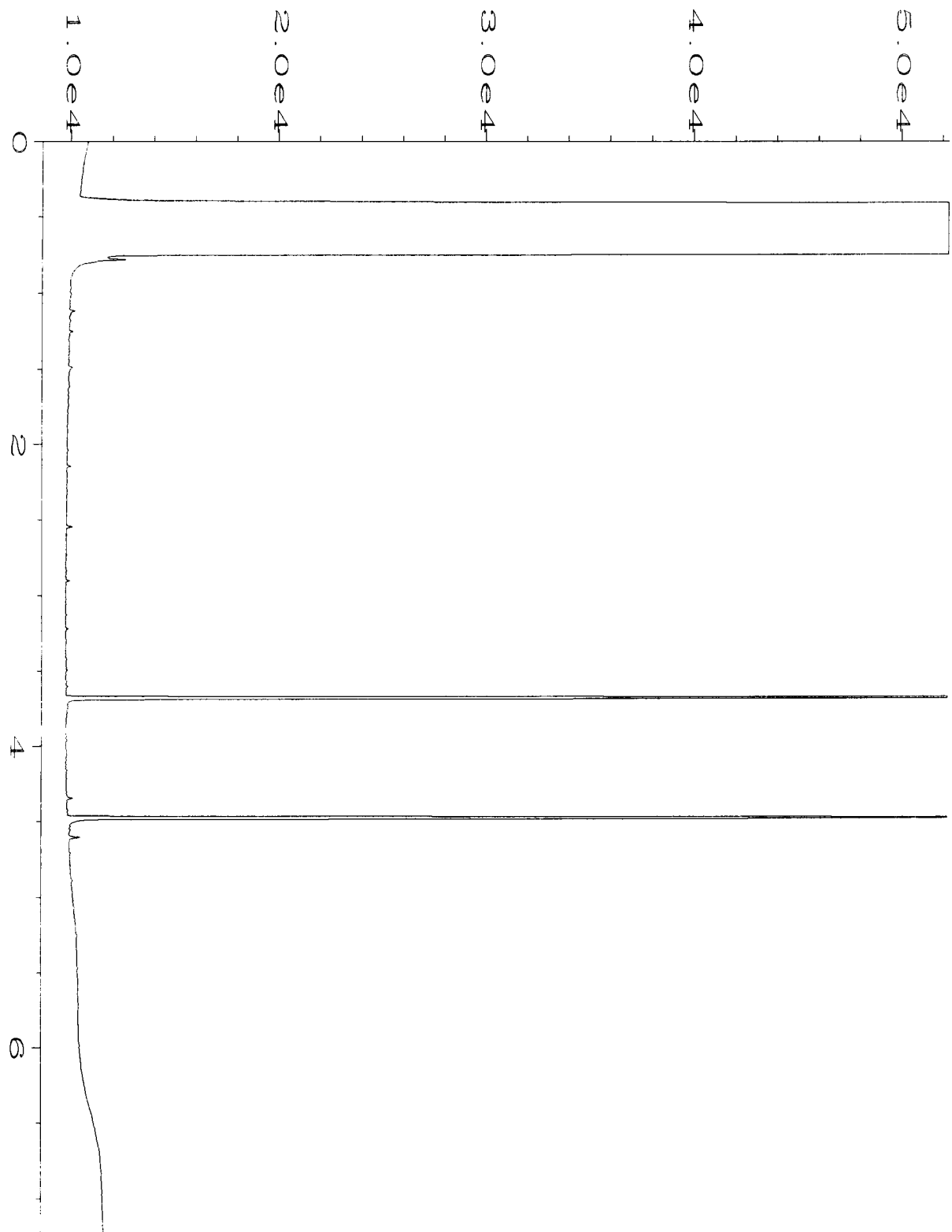
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\035F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 35 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505424-03 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 07:08 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



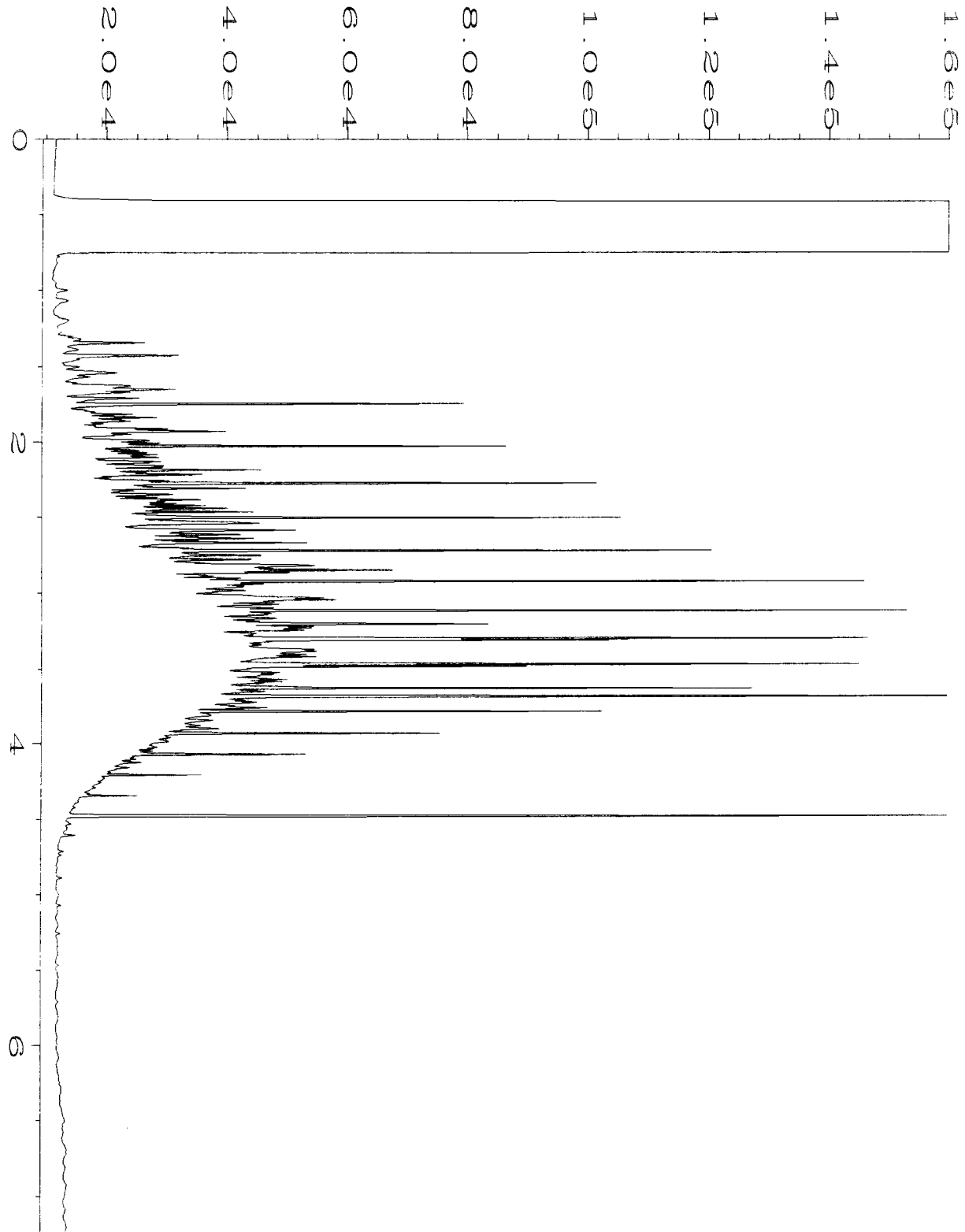
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\036F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 36 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505424-04 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 07:19 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\037F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 37 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505424-05 | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 07:30 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\016F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 16 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1013 mb | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 03:14 PM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:43 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-26-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 26 May 15 08:48 AM | Analysis Method | : DX.MTH |
| Report Created on: | 27 May 15 08:44 AM | | |


505424

SAMPLE CHAIN OF CUSTODY

ME 05-26-15

A01 V21

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) 

PROJECT NAME/NO. 0914-00112 PO # _____

REMARKS (AIE) Standard


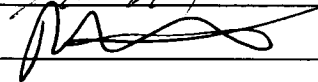
Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | Notes | |
|----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|---------------------------------|-------|---------------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | | PCBs by Method 8082 |
| S-ESW01-A2-250 | A 2 | 250 | 01A-E | 5/26/15 | 0910 | SOIL | 5 | X | X | X | | | | | |
| S-ESW01-A3-250 | A 3 | 250 | 02T | | 0915 | | 5 | | X | X | | | | | |
| S-NSW01-A1-245 | A 1 | 245 | 03 | | 1035 | | 5 | | X | X | | | | | |
| S-NSW01-B1-245 | B 1 | 245 | 04 | | 1037 | | 5 | X | | X | | | | | |
| S-NSW01-C1-245 | C 1 | 245 | 05 | | 1040 | | 5 | X | X | X | | | | | |
| | | | | | | | | | | | | | Samples received at <u>3</u> °C | | |

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 |
|--|------------------|----------------|----------------|-------------|
| Relinquished by:  | | | | |
| Received by:  | <u>E. Forbes</u> | <u>FBS Inc</u> | <u>5/26/15</u> | <u>1340</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #505460

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 2, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 28, 2015 from the SOU_0914-001-12_20150528, F&BI 505460 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0602R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 28, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150528, F&BI 505460 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505460 -01 | S-B01-B1-242 |
| 505460 -02 | S-B01-C1-242 |
| 505460 -03 | S-B01-B3-243 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/15

Date Received: 05/28/15

Project: SOU_0914-001-12_20150528, F&BI 505460

Date Extracted: 05/28/15

Date Analyzed: 05/28/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-B1-242 505460-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| S-B01-C1-242 505460-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| S-B01-B3-243 505460-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| Method Blank 05-1241 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 78 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/15

Date Received: 05/28/15

Project: SOU_0914-001-12_20150528, F&BI 505460

Date Extracted: 05/28/15

Date Analyzed: 05/28/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-B01-B1-242 505460-01 | <50 | <250 | 117 |
| S-B01-C1-242 505460-02 | <50 | <250 | 105 |
| S-B01-B3-243 505460-03 | <50 | <250 | 118 |
| Method Blank 05-1021 MB | <50 | <250 | 102 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/15

Date Received: 05/28/15

Project: SOU_0914-001-12_20150528, F&BI 505460

**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: 505442-04 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 88 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 90 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 91 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/15

Date Received: 05/28/15

Project: SOU_0914-001-12_20150528, F&BI 505460

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505443-01 (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 | <50 | 101 | 96 | 64-133 | 5 |

Laboratory Code: Laboratory Control Sample

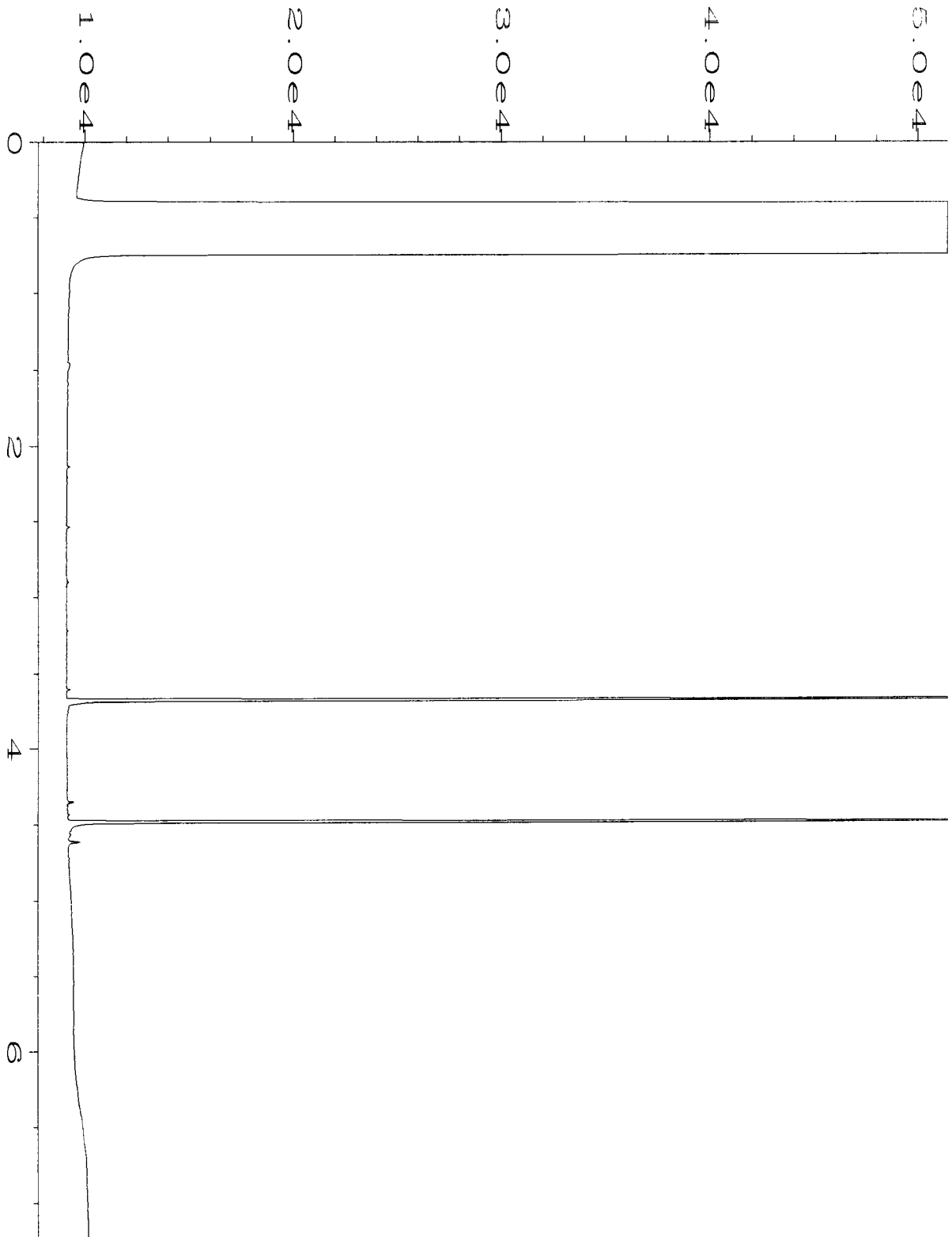
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 94 | 58-147 |

FRIEDMAN & BRUYA, INC.

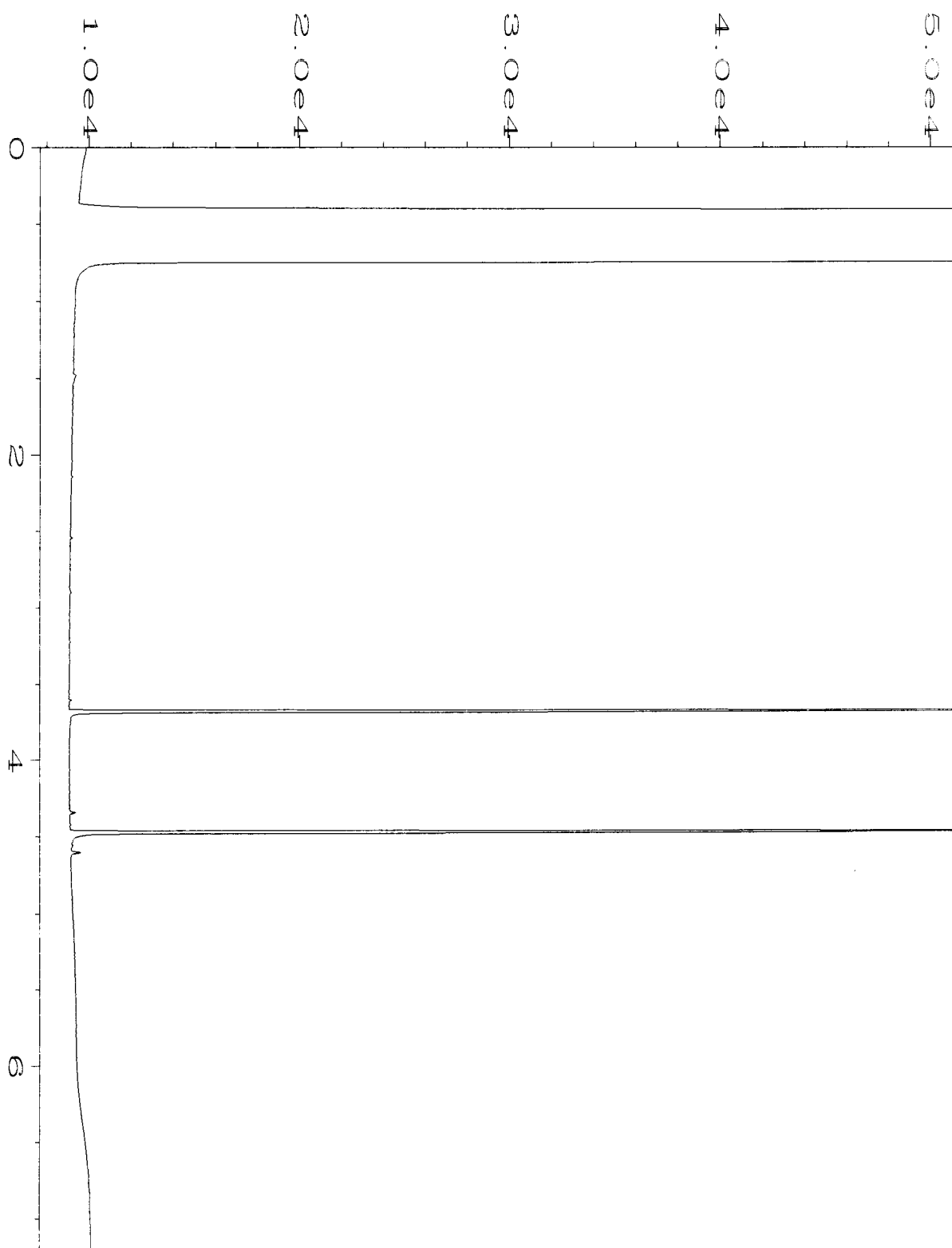
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

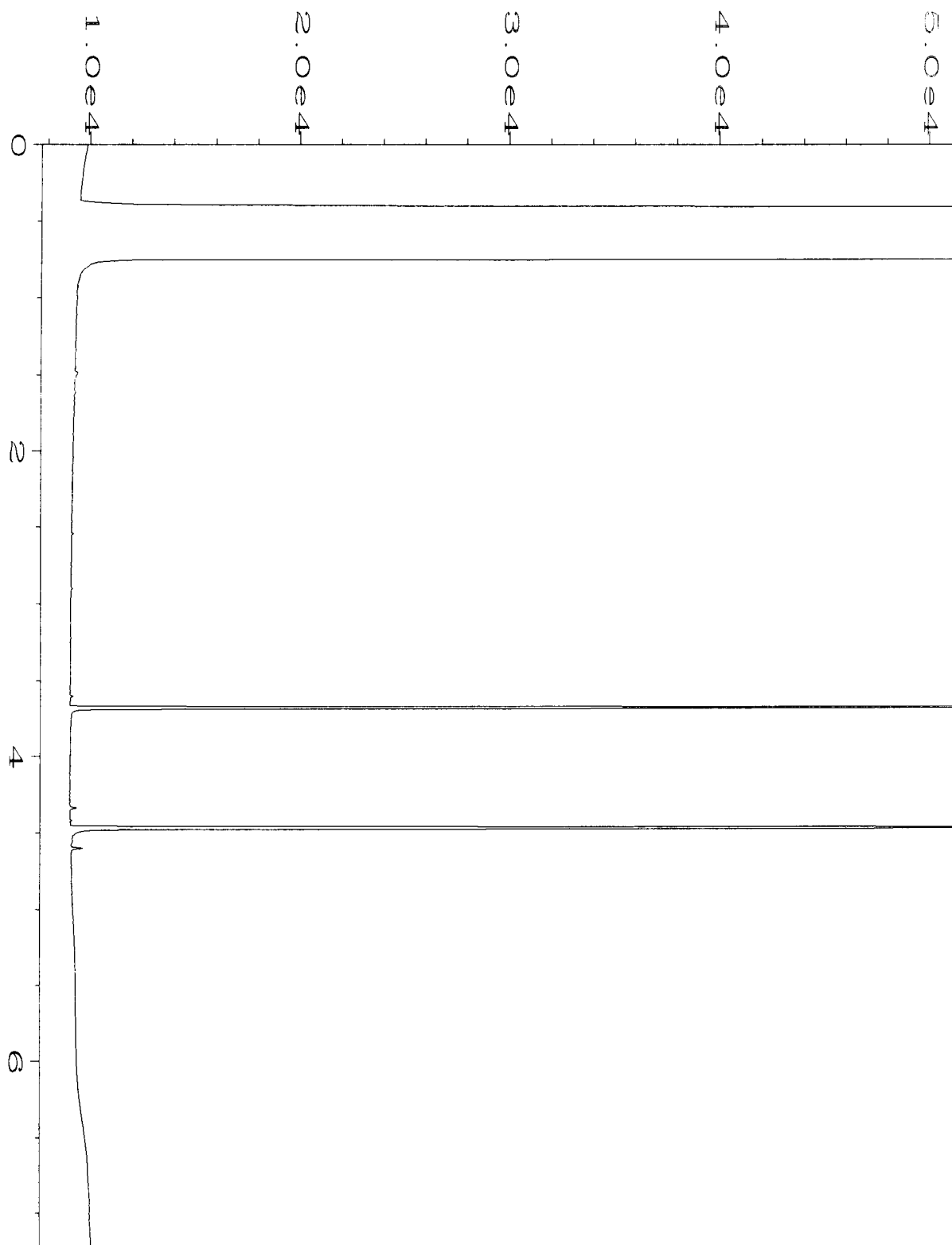
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



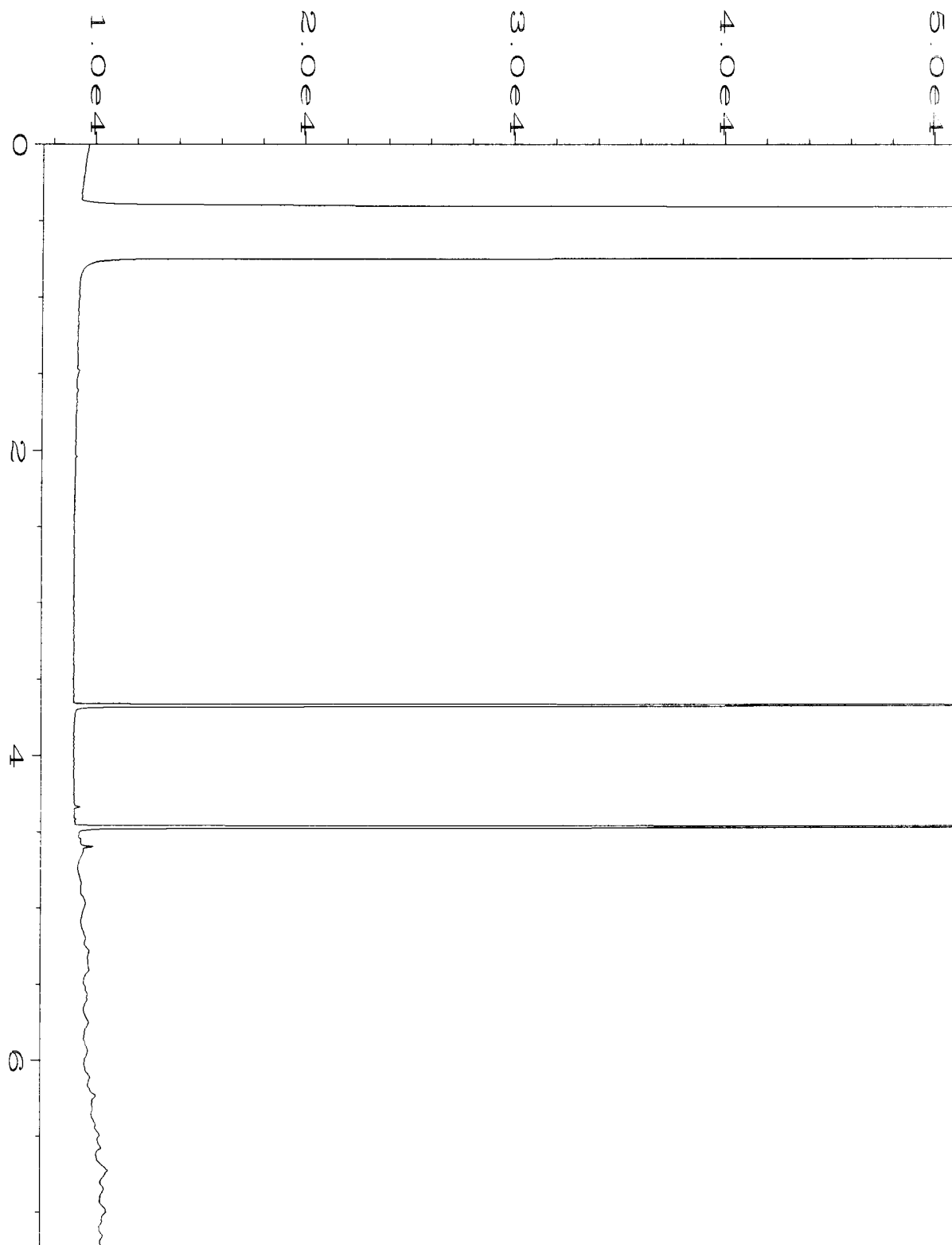
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-28-15\020F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 20 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505460-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 May 15 12:49 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 May 15 08:52 AM | | |



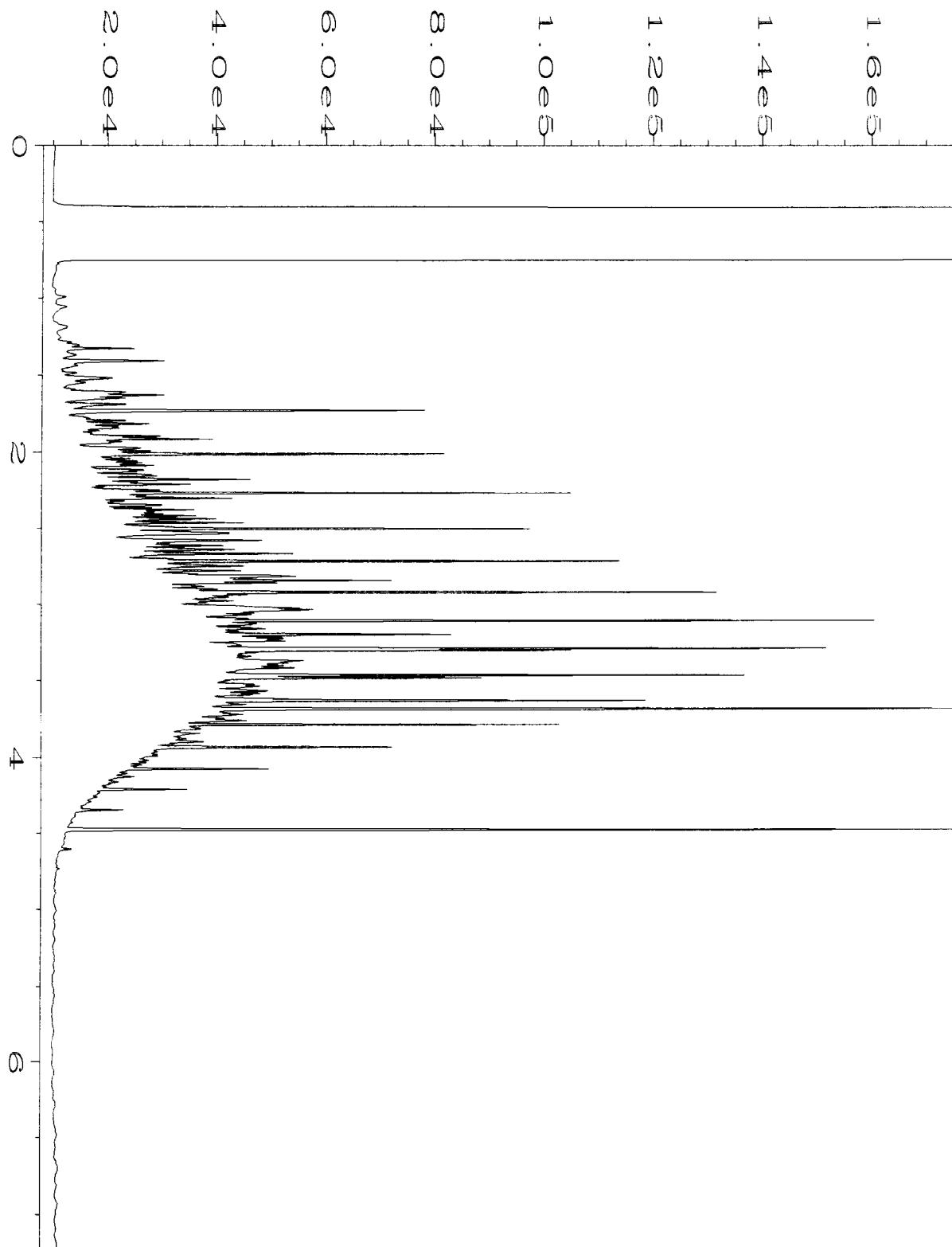
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-28-15\021F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 21 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505460-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 May 15 12:58 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 May 15 08:52 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-28-15\022F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 22 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505460-03 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 May 15 01:09 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 May 15 08:52 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-28-15\038F0701.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 38 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1024 mb | Sequence Line | : 7 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 28 May 15 06:17 PM | Analysis Method | : DX.MTH |
| Report Created on: | 29 May 15 08:53 AM | | |



| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-28-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 28 May 15 09:16 AM | Analysis Method | : DX.MTH |
| Report Created on: | 29 May 15 08:53 AM | | |

SAMPLE CHAIN OF CUSTODY

ME 05/28/15

VS1/A01

Send Report to R. Roberts, S. Stump, E. Forbes, J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. 0914-001-11 PO # _____

REMARKS Same day

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH _____
Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|----------------------------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-B01-B1-242 | B1 | 242 | B1AE | 5/28/15 | 1050 | Soil | 5 | X | X | X | | | | | | |
| S-B01-C1-242 | C1 | 242 | or | ↓ | 1055 | ↓ | 5 | X | X | X | | | | | | |
| S-B01-B3-243 | B3 | 243 | or | ↓ | 1100 | ↓ | 5 | X | X | X | | | | | | |
| Samples received at <u>18</u> °C | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|--------------------|----------------|----------------|-------------|
| Relinquished by: <u>[Signature]</u> | <u>Liz Fyfe</u> | <u>SES</u> | <u>5/28/15</u> | <u>1135</u> |
| Received by: <u>[Signature]</u> | <u>James Bruya</u> | <u>F&B</u> | <u>5/28</u> | <u>1135</u> |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #505496

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 3, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 29, 2015 from the SOU_0914-001-12_20150529, F&BI 505496 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0603R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 29, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150529, F&BI 505496 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505496 -01 | S-ESW01-A1-245 |
| 505496 -02 | S-ESW01-A2-245 |
| 505496 -03 | S-ESW01-A3-245 |
| 505496 -04 | S-ESW01-A4-245 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505496

Date Extracted: 05/29/15

Date Analyzed: 05/29/15 and 06/01/15

**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) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-ESW01-A1-245 505496-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 76 |
| S-ESW01-A2-245 505496-02 1/5 | <0.02 j | 4.8 | 8.9 | 39 | 1,300 | 141 |
| S-ESW01-A3-245 505496-03 | <0.02 | <0.02 | 0.023 | 0.24 | 3.7 | 88 |
| S-ESW01-A4-245 505496-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |
| Method Blank 05-1244 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505496

Date Extracted: 06/01/15

Date Analyzed: 06/01/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-ESW01-A1-245 505496-01 | <50 | <250 | 103 |
| S-ESW01-A2-245 505496-02 | 610 x | 300 | 94 |
| S-ESW01-A3-245 505496-03 | 3,200 x | <250 | 109 |
| S-ESW01-A4-245 505496-04 | <50 | <250 | 101 |
| Method Blank 05-1033 MB | <50 | <250 | 92 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505496

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 505484-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 80 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 93 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 94 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 93 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505496

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 506006-05 (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 | 5,400 | 114 b | 90 b | 63-146 | 24 b |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 104 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

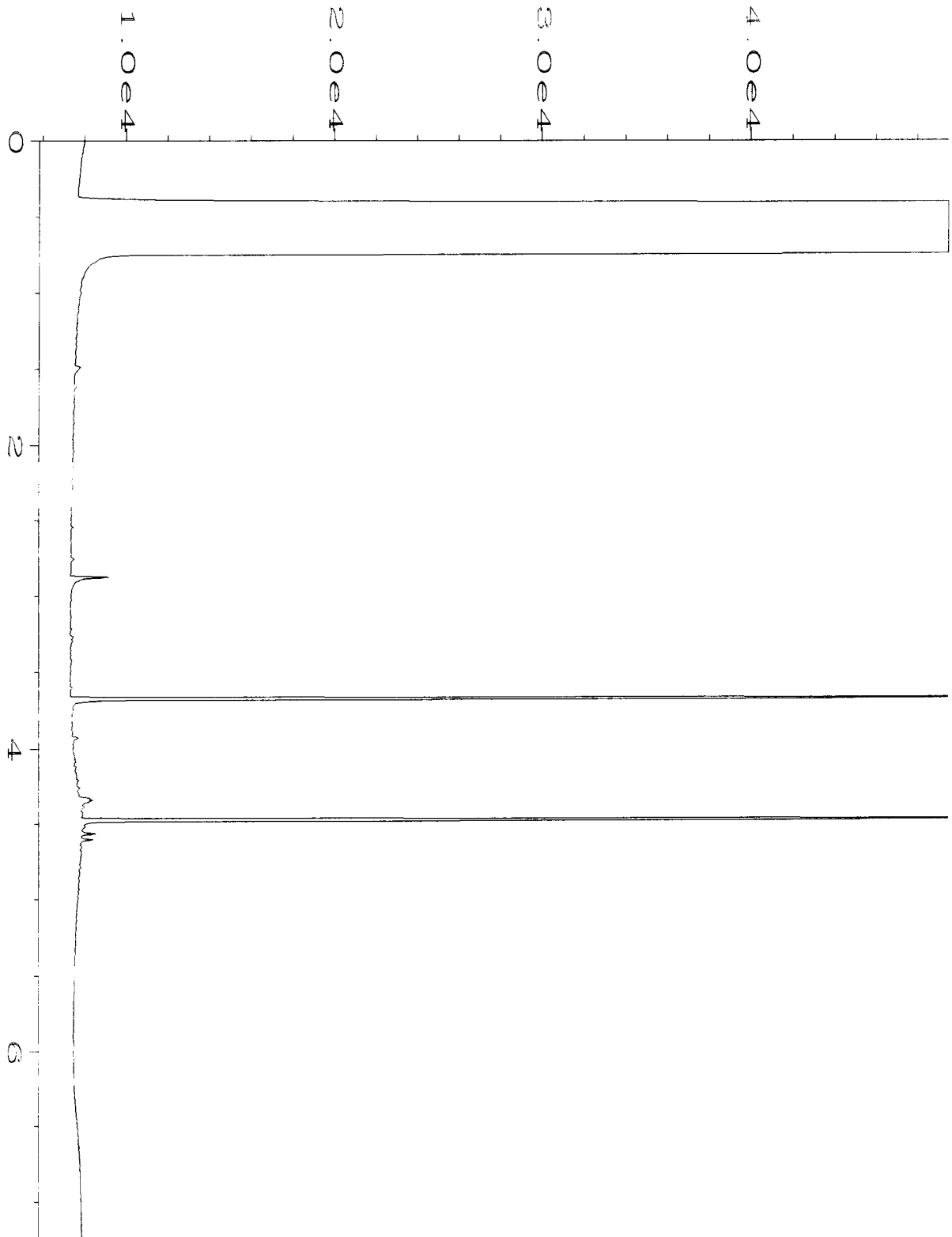
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

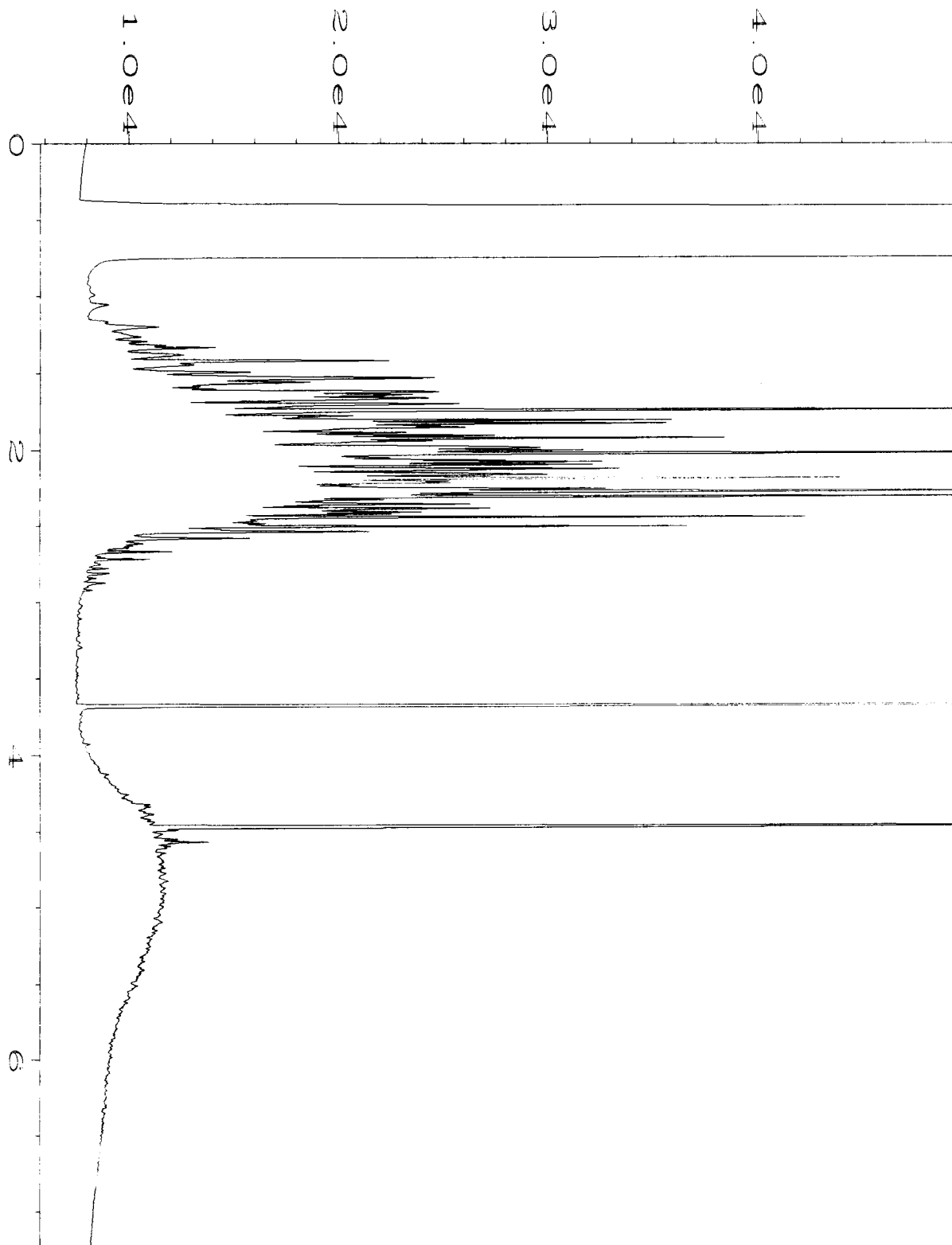
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

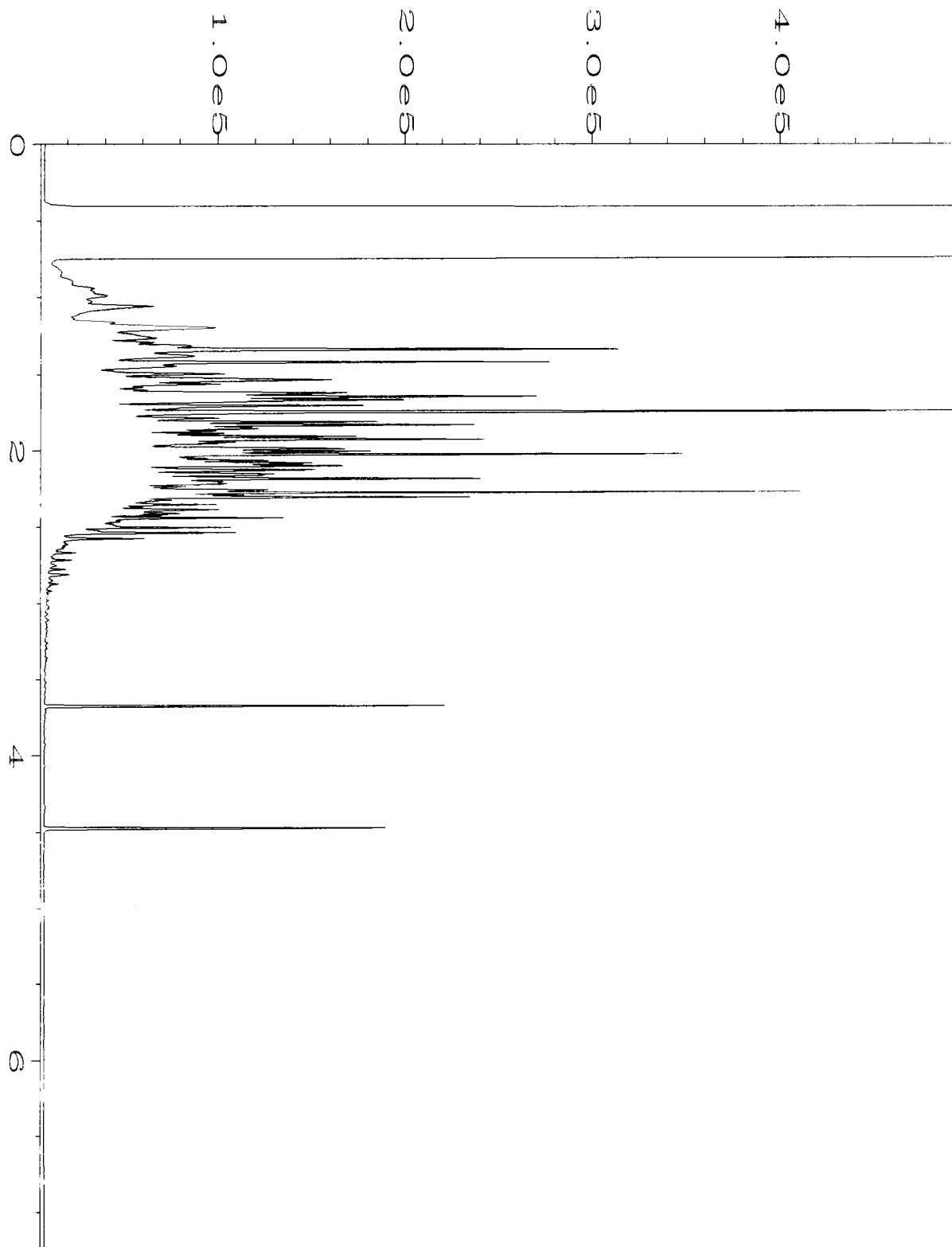
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



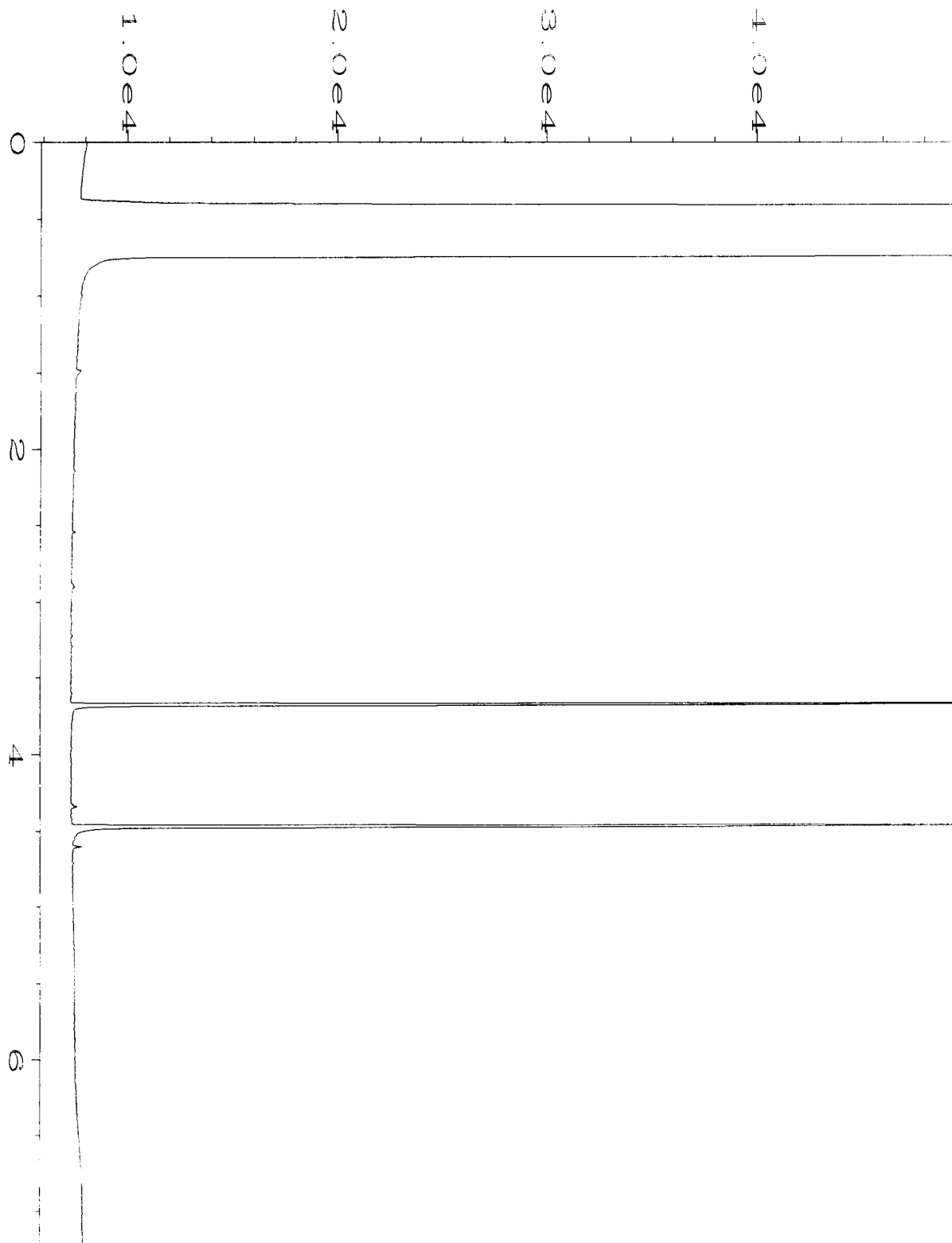
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\042F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 42 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505496-01 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 07:11 PM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |



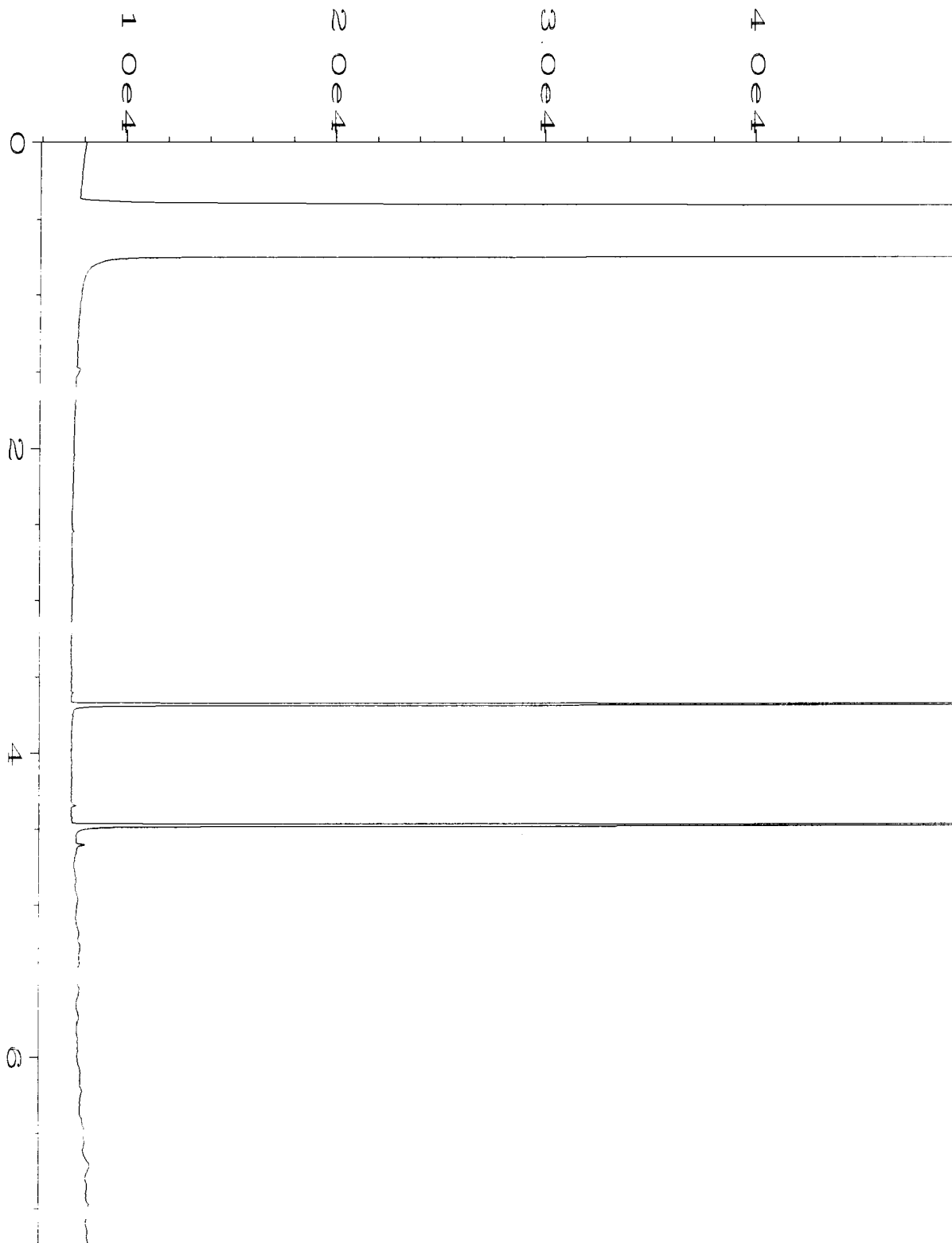
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\043F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 43 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505496-02 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 07:22 PM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |



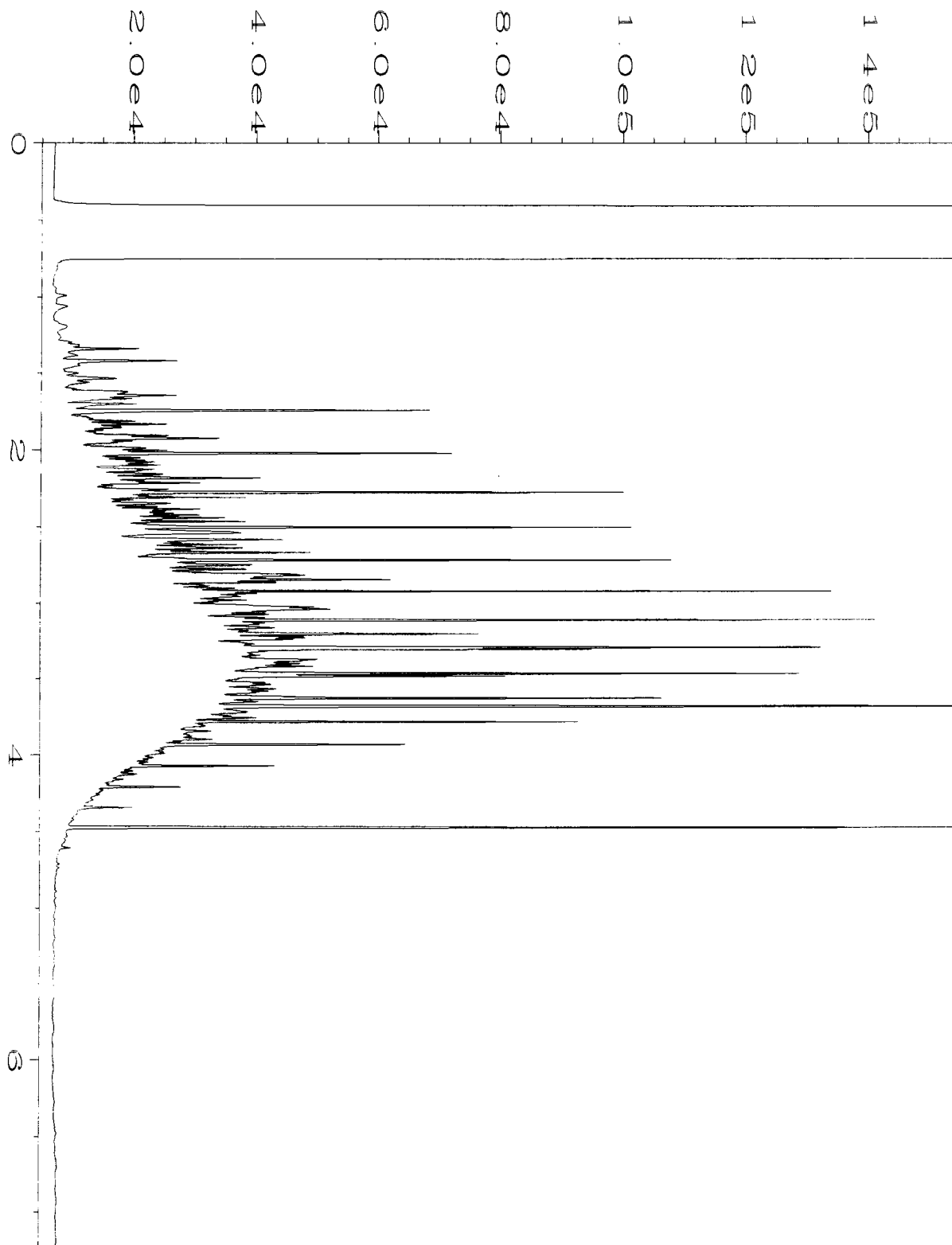
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\044F1001.D | Page Number | : 1 |
| Operator | : mwd1 | Vial Number | : 44 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505496-03 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 07:34 PM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\045F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 45 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505496-04 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 07:45 PM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\025F0801.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1033 mb | Sequence Line | : 8 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 03:39 PM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-01-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 08:54 AM | Analysis Method | : DX.MTH |
| Report Created on: | 02 Jun 15 10:07 AM | | |

505496

SAMPLE CHAIN OF CUSTODY

ME 5/29/15

A05/15
Page # 1 of 1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue E, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0914-001-12 PO # _____

REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|----------------|-----------------|--------------|-----------------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|----------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-ESW01-A1-245 | A1 | 245 | 01 ^A | 5/29/15 | 12:30 | SOL | 5 | X | X | X | | | | | | Standard |
| S-ESW01-A2-245 | A2 | 245 | 02 | ↓ | 12:30 | ↓ | 5 | X | X | X | | | | | | |
| S-ESW01-A3-245 | A3 | 245 | 03 [↓] | ↓ | 2:05 | ↓ | 5 | X | X | X | | | | | | |
| S-ESW01-A4-245 | A4 | 245 | 04 ^C | ↓ | 11:00 | ↓ | 3 | X | X | X | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

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 |
|-------------------------------------|--------------------|---------|---------|-------|
| Relinquished by: <i>[Signature]</i> | <i>[Signature]</i> | SEB | 5/29/15 | 13:35 |
| Received by: <i>[Signature]</i> | <i>[Signature]</i> | STP | 5/29/15 | 8:00 |
| Relinquished by: _____ | _____ | _____ | _____ | _____ |
| Received by: _____ | _____ | _____ | _____ | _____ |

Samples received at 4 °C

Friedman & Bruya, Inc. #505501

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 4, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on May 29, 2015 from the SOU_0914-001-12_20150529, F&BI 505501 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0604R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 29, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150529, F&BI 505501 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 505501 -01 | S-B01-A1-242 |
| 505501 -02 | S-B01-A2-242 |
| 505501 -03 | S-B01-B2-242 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505501

Date Extracted: 05/29/15

Date Analyzed: 05/29/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-A1-242 505501-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 86 |
| S-B01-A2-242 505501-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| S-B01-B2-242 505501-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 86 |
| Method Blank 05-1244 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505501

Date Extracted: 05/29/15

Date Analyzed: 05/29/15

**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 56-165) |
|-----------------------------------|--|---|---|
| S-B01-A1-242 505501-01 | <50 | <250 | 96 |
| S-B01-A2-242 505501-02 | <50 | <250 | 99 |
| S-B01-B2-242 505501-03 | <50 | <250 | 101 |
| Method Blank 05-1027 MB | <50 | <250 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505501

**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: 505484-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 80 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 93 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 94 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 93 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 05/29/15

Project: SOU_0914-001-12_20150529, F&BI 505501

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505477-01 (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 | <50 | 112 | 112 | 63-146 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 112 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

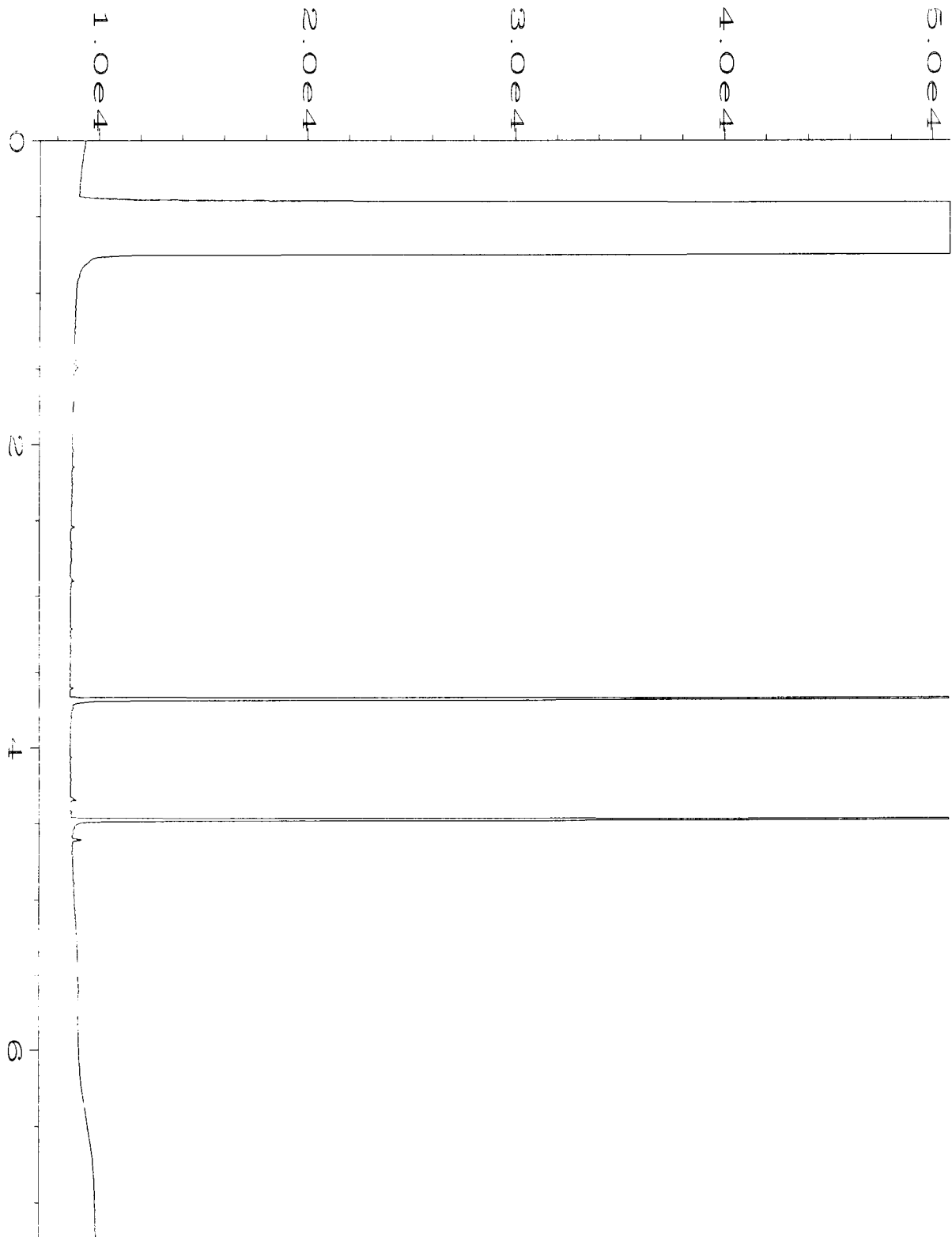
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

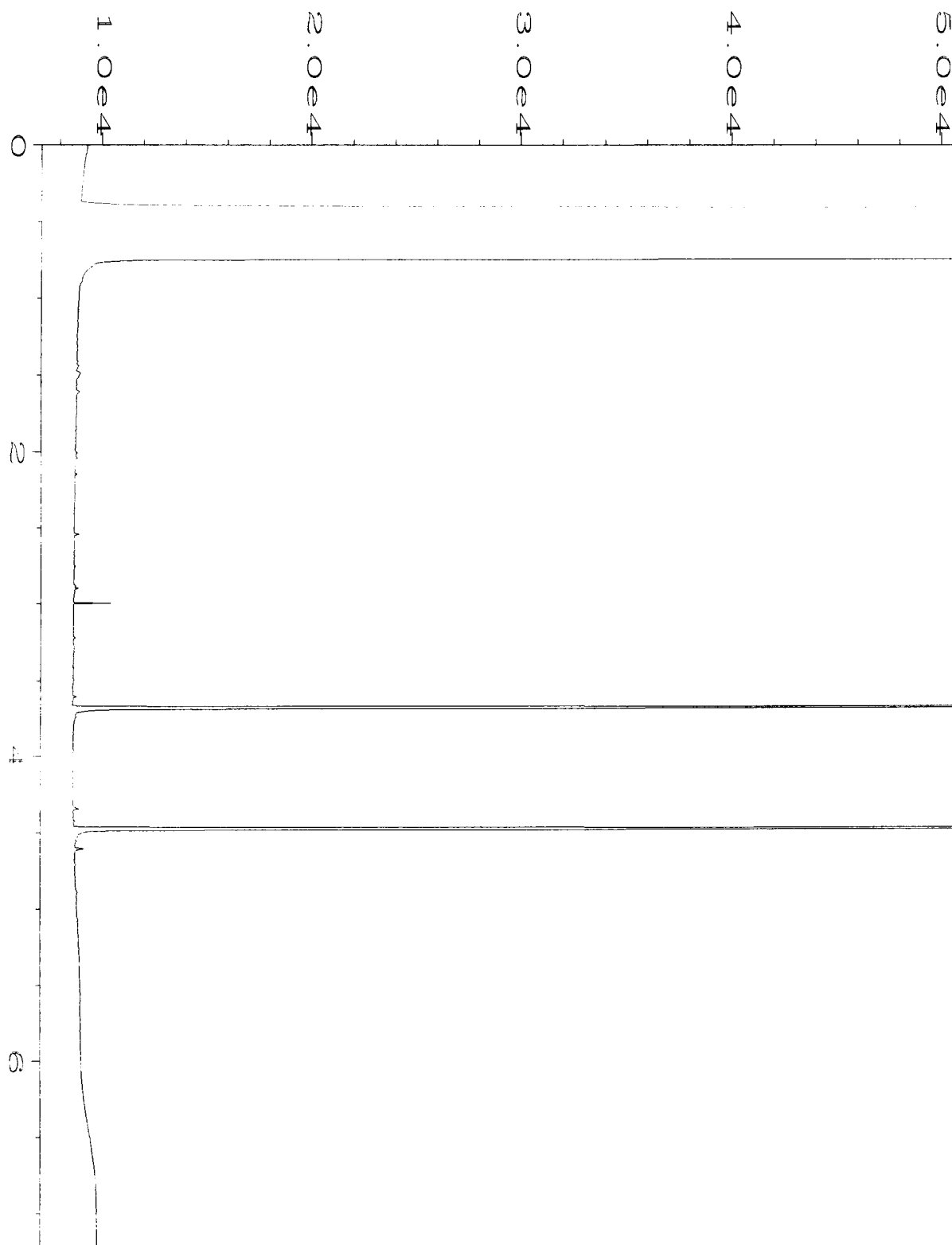
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

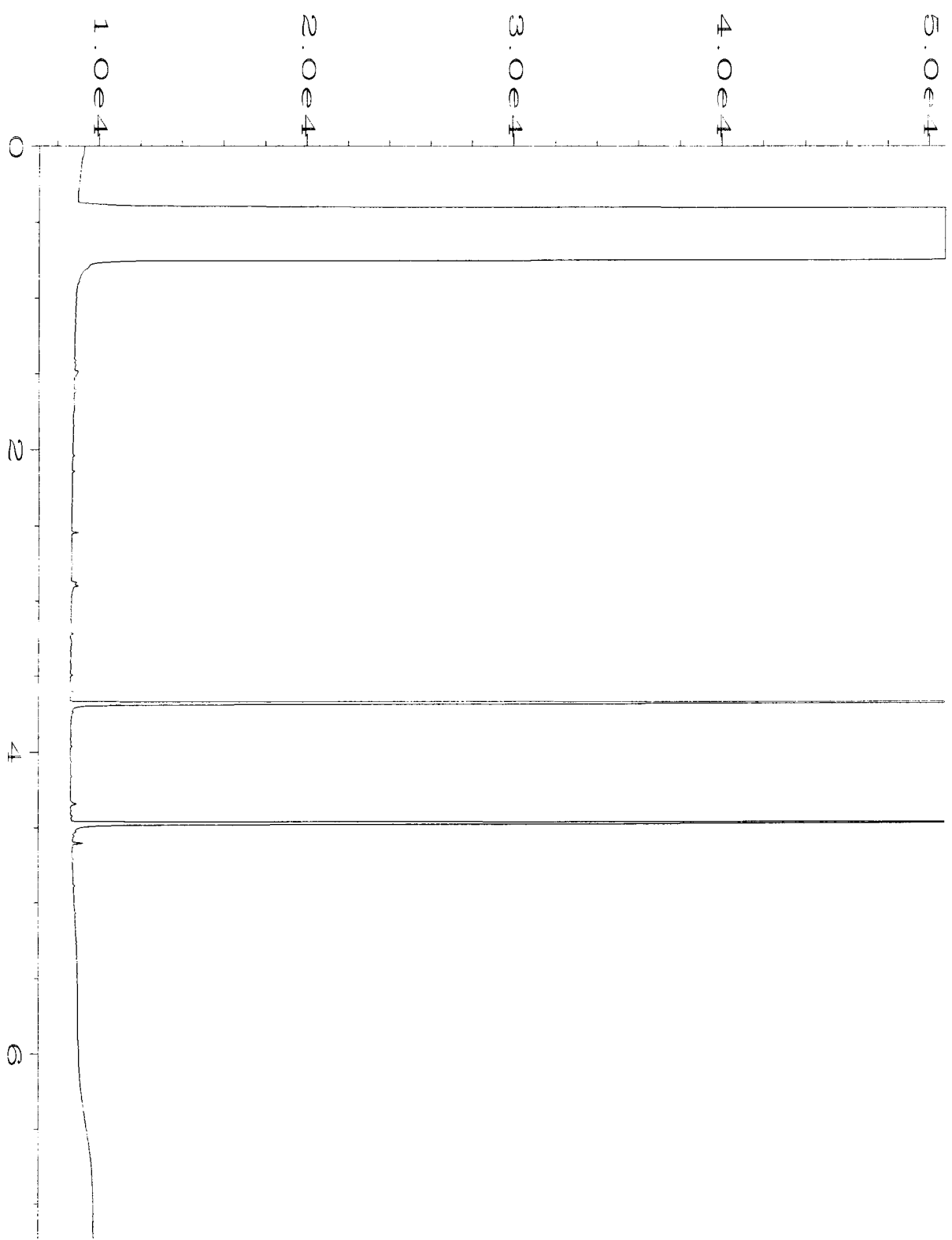
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



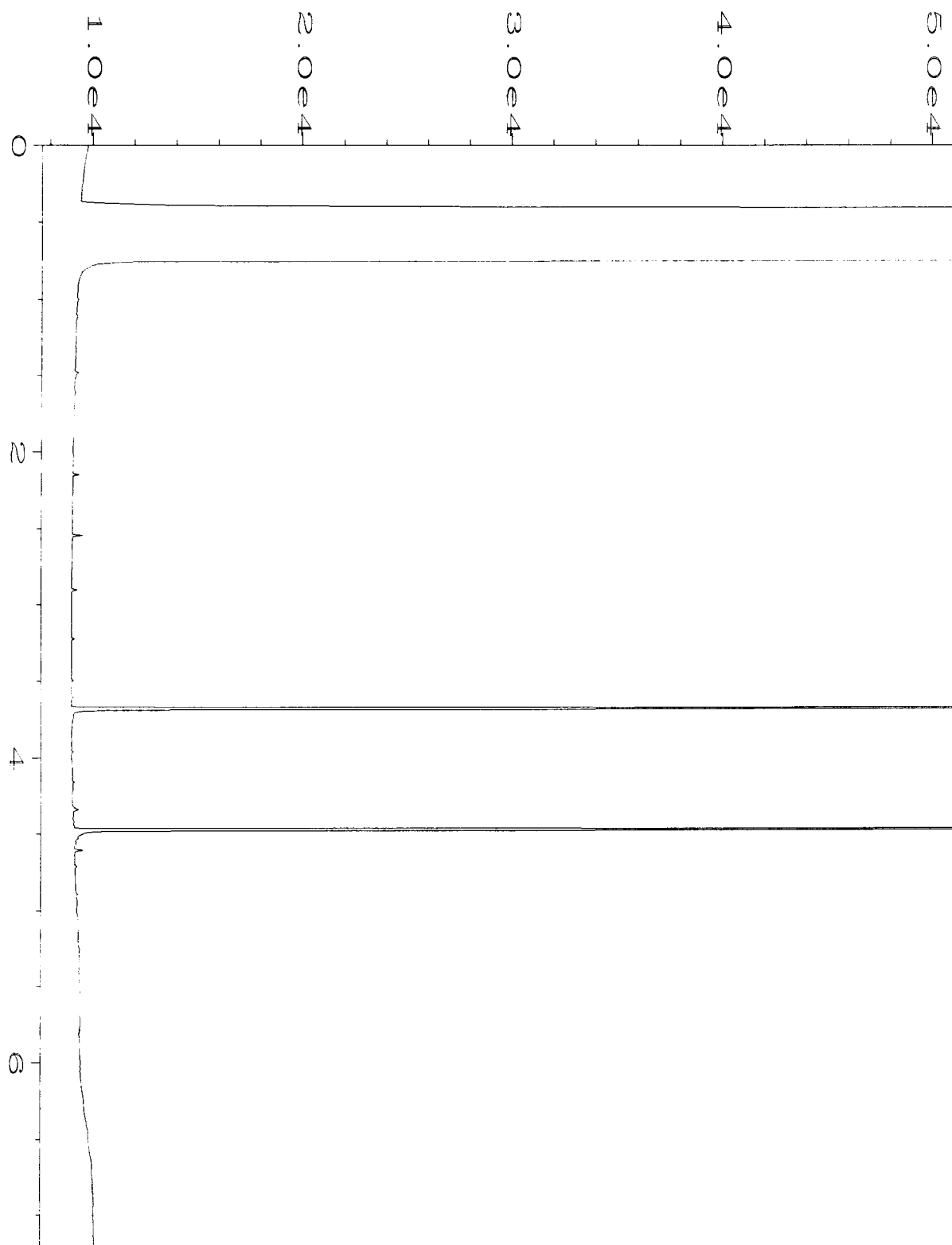
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-29-15\068F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 68 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505501-01 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 May 15 11:16 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 Jun 15 09:37 AM | | |



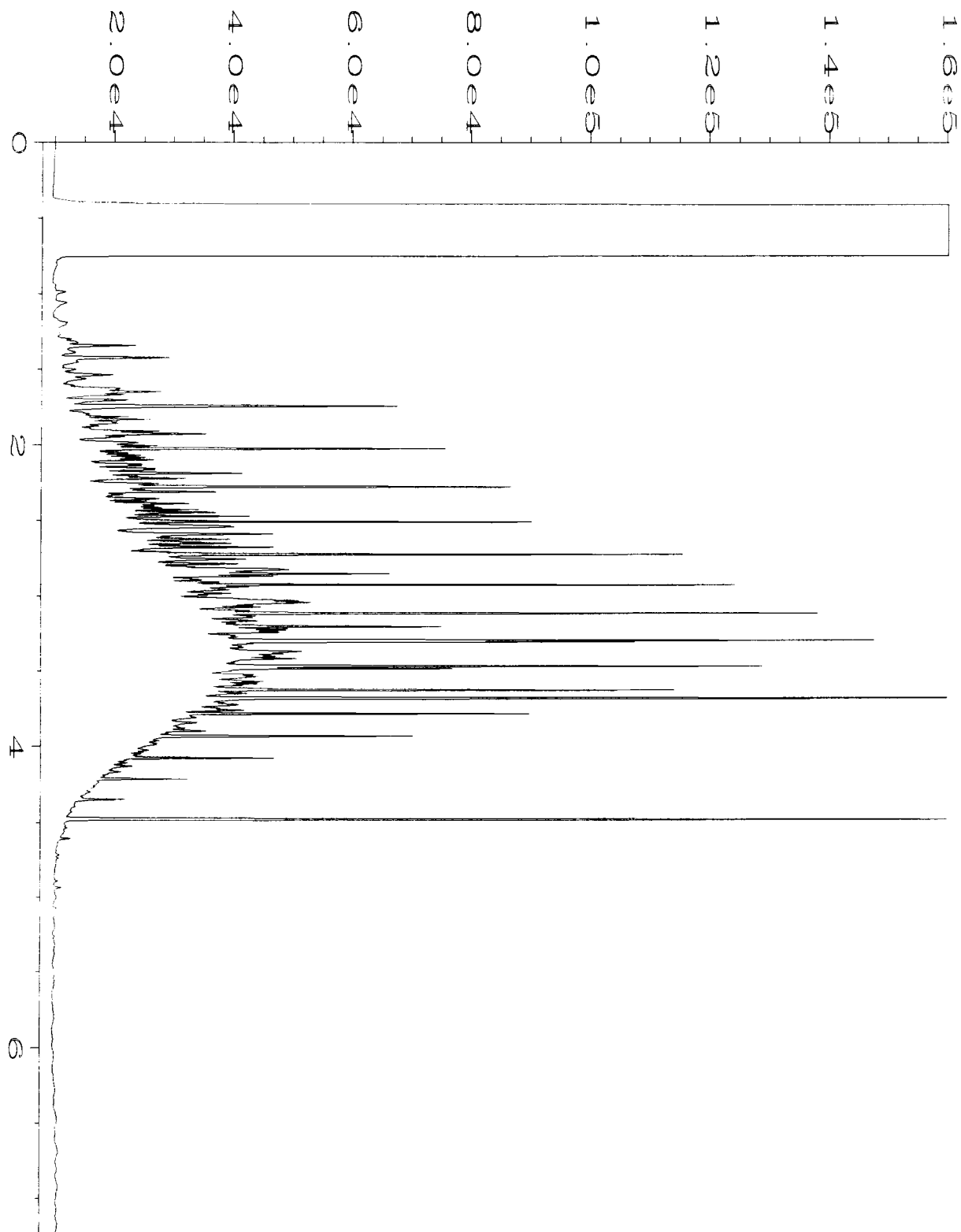
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-29-15\069F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 69 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505501-02 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 May 15 11:27 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 Jun 15 09:37 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-29-15\070F1001.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 70 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 505501-03 | Sequence Line | : 10 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 May 15 11:39 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 Jun 15 09:37 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-29-15\021F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 21 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1027 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 May 15 12:54 PM | Analysis Method | : DX.MTH |
| Report Created on: | 01 Jun 15 09:38 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\05-29-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 29 May 15 09:01 AM | Analysis Method | : DX.MTH |
| Report Created on: | 01 Jun 15 09:36 AM | | |

Friedman & Bruya, Inc. #506004

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 3, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on June 1, 2015 from the SOU_0914-001-12_20150601, F&BI 506004 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0603R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 1, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150601, F&BI 506004 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 506004 -01 | S-SSW01-A4-245 |
| 506004 -02 | S-ESW01-A4-250 |
| 506004 -03 | S-B01-A3-240.5 |
| 506004 -04 | S-SSW01-B4-245 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 06/01/15

Project: SOU_0914-001-12_20150601, F&BI 506004

Date Extracted: 06/01/15

Date Analyzed: 06/01/15

**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) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|---|
| S-SSW01-A4-245 506004-01 | <0.02 | <0.02 | 0.14 | <0.06 | <2 | 88 |
| S-ESW01-A4-250 506004-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| S-B01-A3-240.5 506004-03 | <0.02 | <0.02 | 0.42 | 2.5 | 14 | 89 |
| S-SSW01-B4-245 506004-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 89 |
| Method Blank 05-1246 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 06/01/15

Project: SOU_0914-001-12_20150601, F&BI 506004

Date Extracted: 06/01/15

Date Analyzed: 06/01/15

**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> (% Recovery) (Limit 53-144) |
|-----------------------------------|--|---|--|
| S-SSW01-A4-245 506004-01 | <50 | <250 | 111 |
| S-ESW01-A4-250 506004-02 | <50 | <250 | 98 |
| S-B01-A3-240.5 506004-03 | <50 | <250 | 96 |
| S-SSW01-B4-245 506004-04 | <50 | <250 | 110 |
| Method Blank 05-1032 MB | <50 | <250 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 06/01/15

Project: SOU_0914-001-12_20150601, F&BI 506004

**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: 505509-04 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 77 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 88 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 90 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/03/15

Date Received: 06/01/15

Project: SOU_0914-001-12_20150601, F&BI 506004

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 505507-01 (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 | <50 | 117 | 116 | 64-133 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 103 | 58-147 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

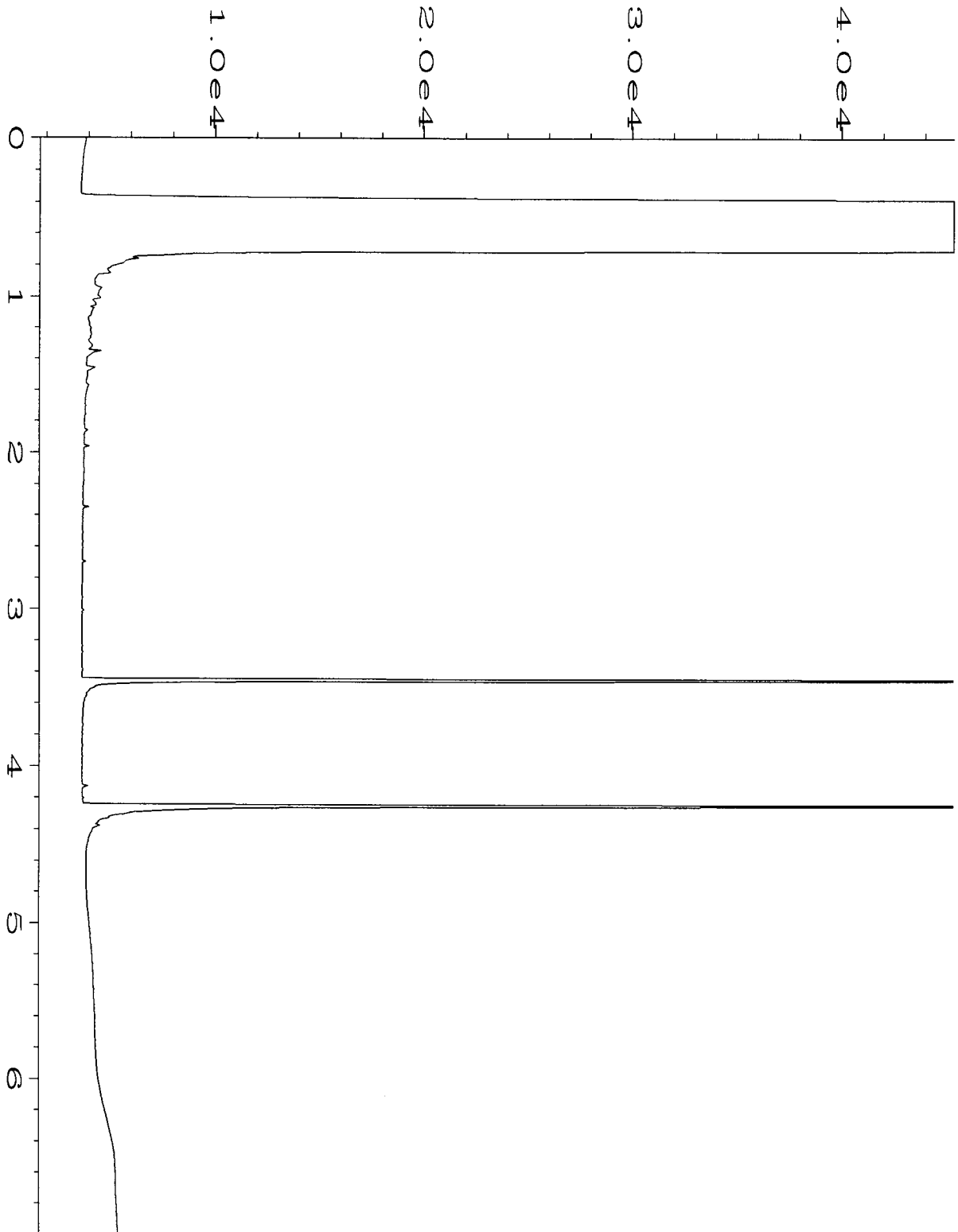
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

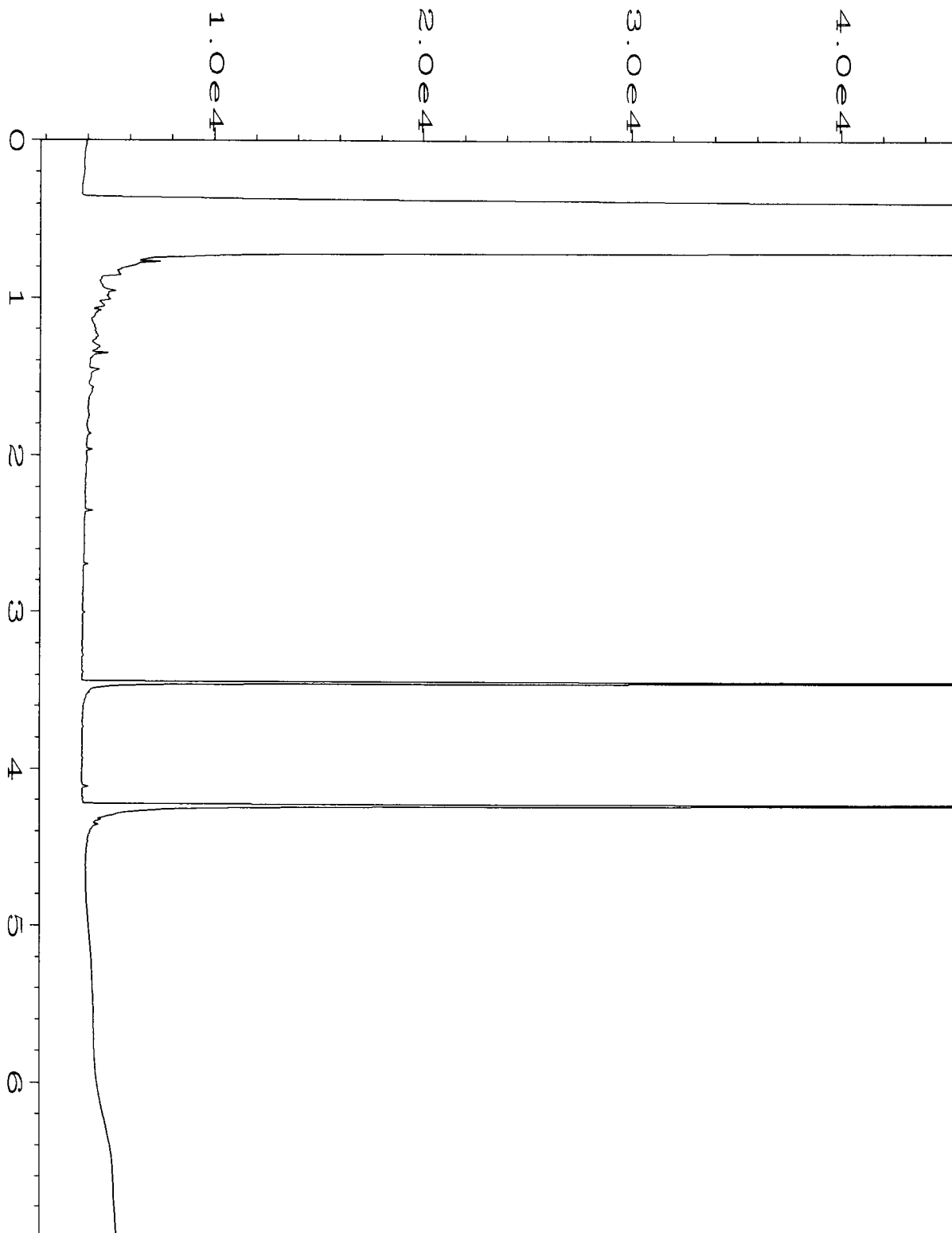
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

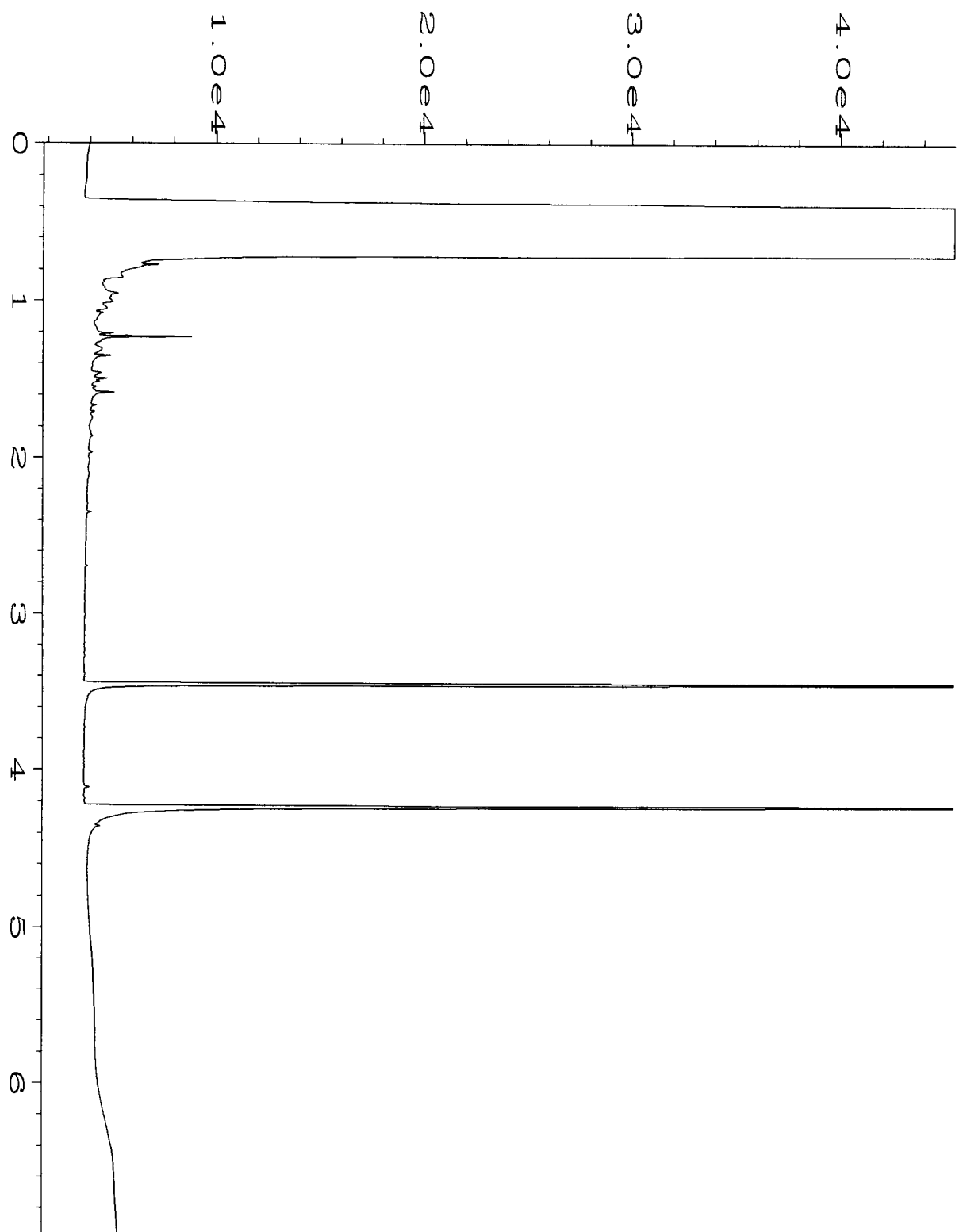
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



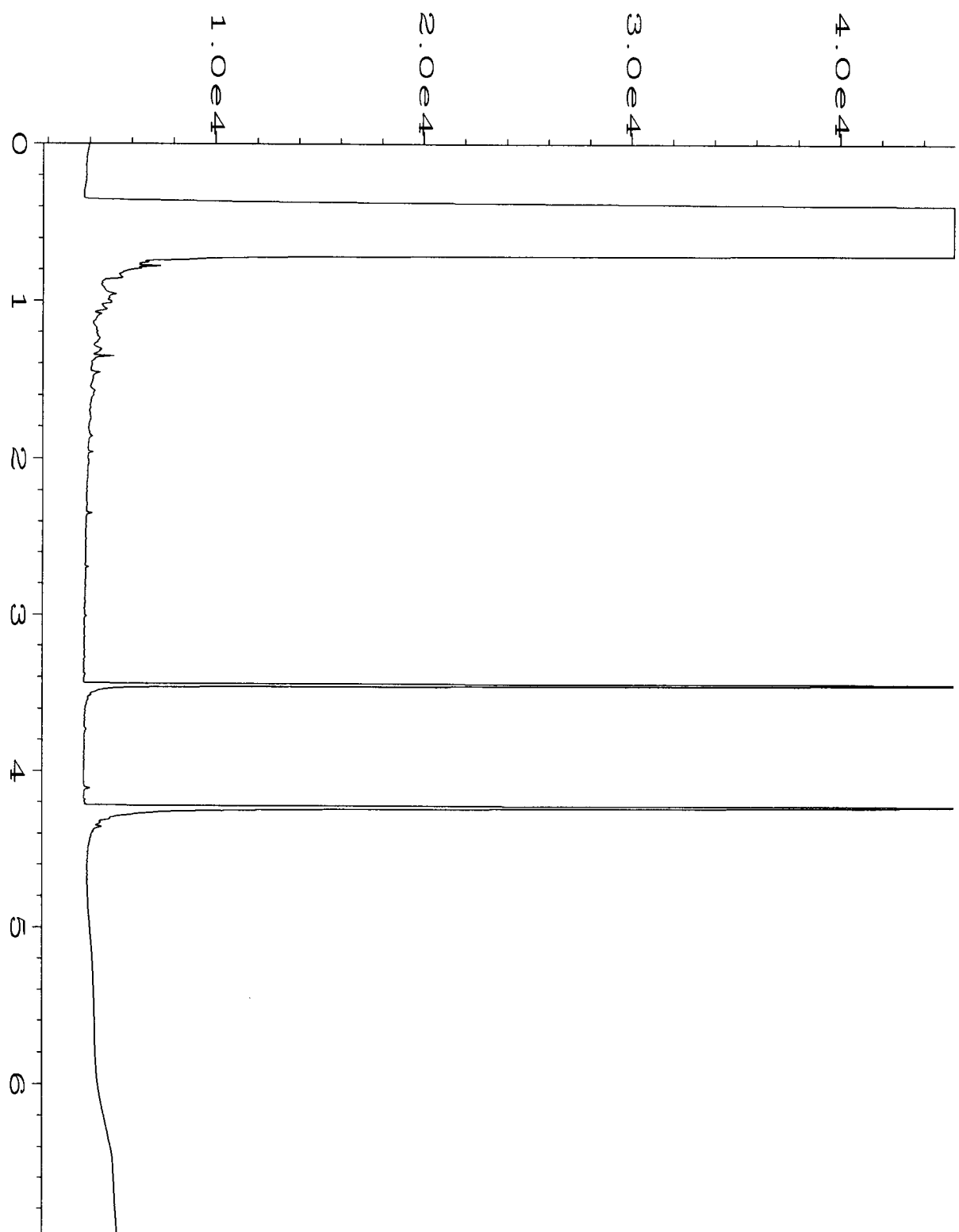
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|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\024F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 24 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 506004-01 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 01:17 PM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:17 PM | | |



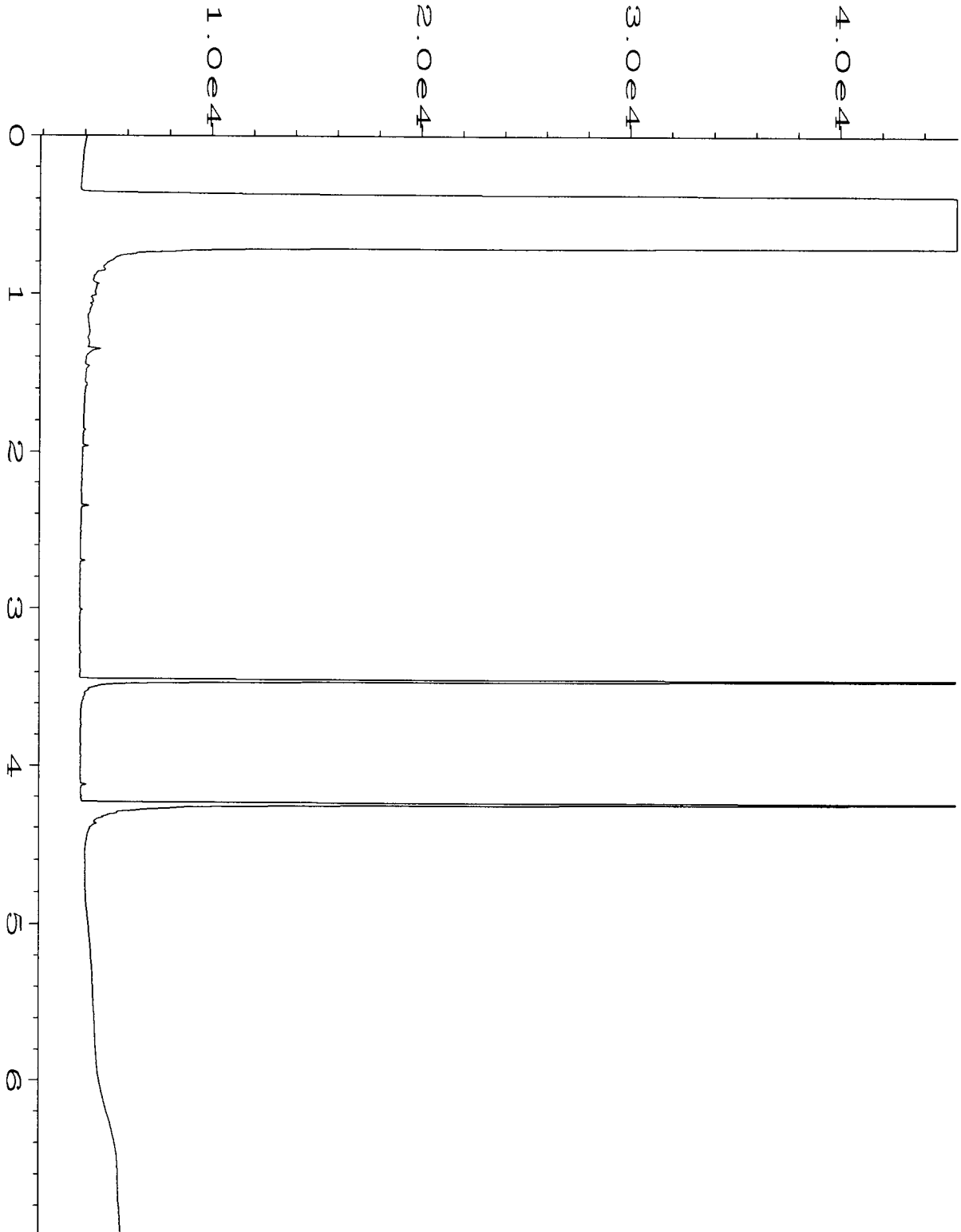
| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\025F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 25 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 506004-02 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 01:26 PM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:17 PM | | |



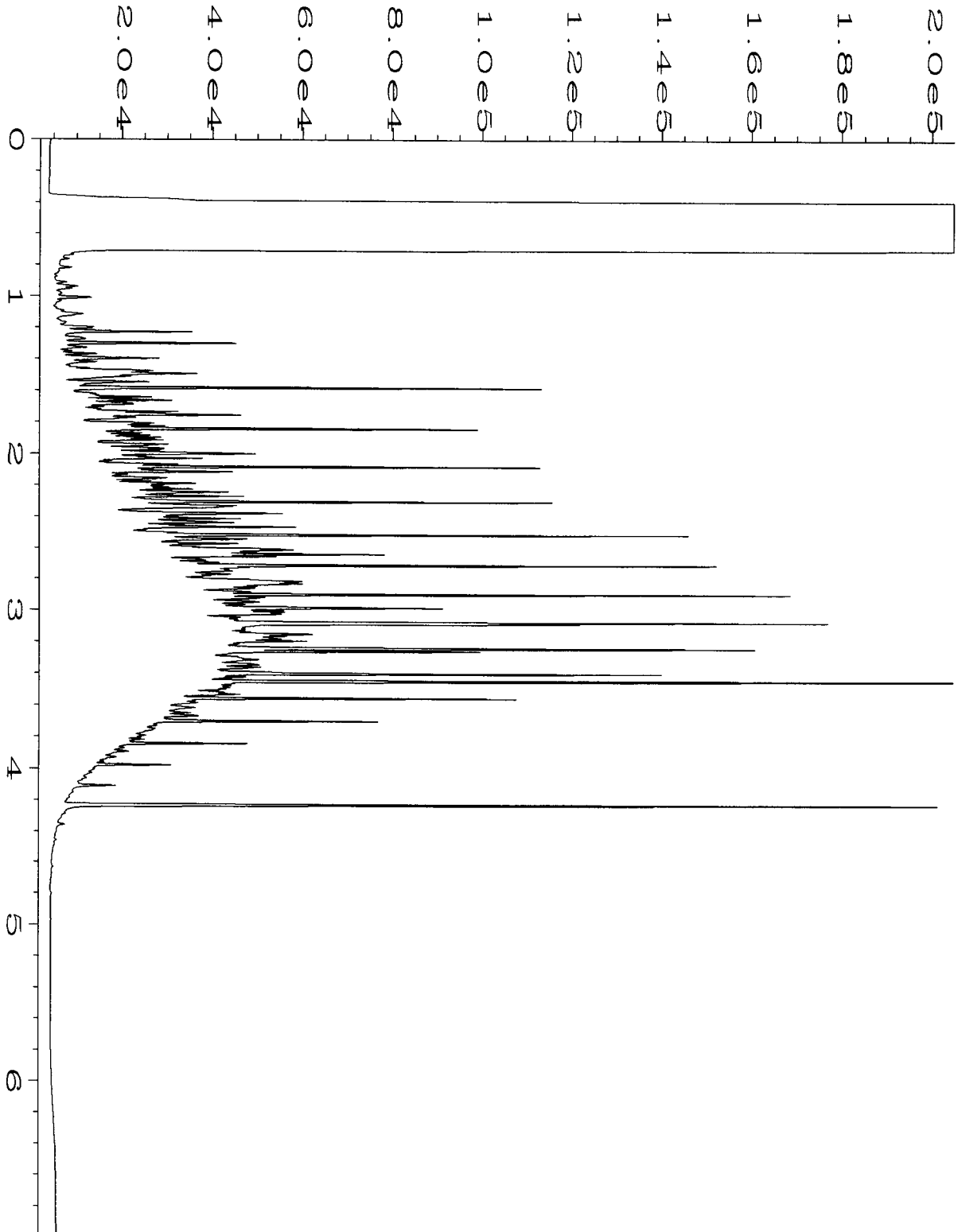
| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\026F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 26 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 506004-03 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 01:36 PM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:17 PM | | |



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\027F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 27 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 506004-04 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 01:47 PM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:17 PM | | |



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\006F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 6 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 05-1032 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 09:37 AM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:18 PM | | |



| | | | |
|--------------------|--|--------------------|-----------|
| Data File Name | : C:\HPCHEM\6\DATA\06-01-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC #6 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 01 Jun 15 09:12 AM | Analysis Method | : END.MTH |
| Report Created on: | 01 Jun 15 02:19 PM | | |

506004

SAMPLE CHAIN OF CUSTODY

ME 6/1/15

VSI/BOI

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0914-00117 PO #

REMARKS RUSH ASAP

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| S-55201-A4-245 | A4 | 245 | 01A | 6/1/15 | 09:50 | Soil | 3 | X | X | X | | | | | | |
| S-55201-A4-260 | A4 | 260 | 02 | | 09:55 | | 3 | X | X | X | | | | | | Standard 7A7 |
| S-601-A5-240.5 | A5 | 240.5 | 03 | | 10:50 | | 3 | X | X | X | | | | | | |
| S-55201-A4-245 | A4 | 245 | 04 | | 11:00 | | 3 | X | X | X | | | | | | |

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 |
|-------------------------------------|------------|---------|--------|-------|
| Relinquished by: <i>[Signature]</i> | Lee Taylor | SEI | 6/1/15 | 11:30 |
| Received by: <i>[Signature]</i> | VIN | FEI | 6/1/15 | 11:30 |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples stored at 3 °C

Friedman & Bruya, Inc. #506028

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 4, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on June 2, 2015 from the SOU_0914-001_20150602, F&BI 506028 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0604R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 2, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001_20150602, F&BI 506028 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
506028 -01

SoundEarth Strategies
S-B01-C5-250

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15
Date Received: 06/02/15
Project: SOU_0914-001_20150602, F&BI 506028
Date Extracted: 06/02/15
Date Analyzed: 06/02/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| S-B01-C5-250 506028-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| Method Blank 05-1259 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 06/02/15

Project: SOU_0914-001_20150602, F&BI 506028

Date Extracted: 06/02/15

Date Analyzed: 06/02/15

**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> (% Recovery) (Limit 56-165) |
|-----------------------------------|--|---|--|
| S-B01-C5-250 506028-01 | <50 | <250 | 104 |
| Method Blank 05-1041 MB | <50 | <250 | 110 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 06/02/15

Project: SOU_0914-001_20150602, F&BI 506028

**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: 506023-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 79 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 92 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 92 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 92 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/15

Date Received: 06/02/15

Project: SOU_0914-001_20150602, F&BI 506028

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 506028-01 (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 | <50 | 109 | 115 | 63-146 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 109 | 79-144 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

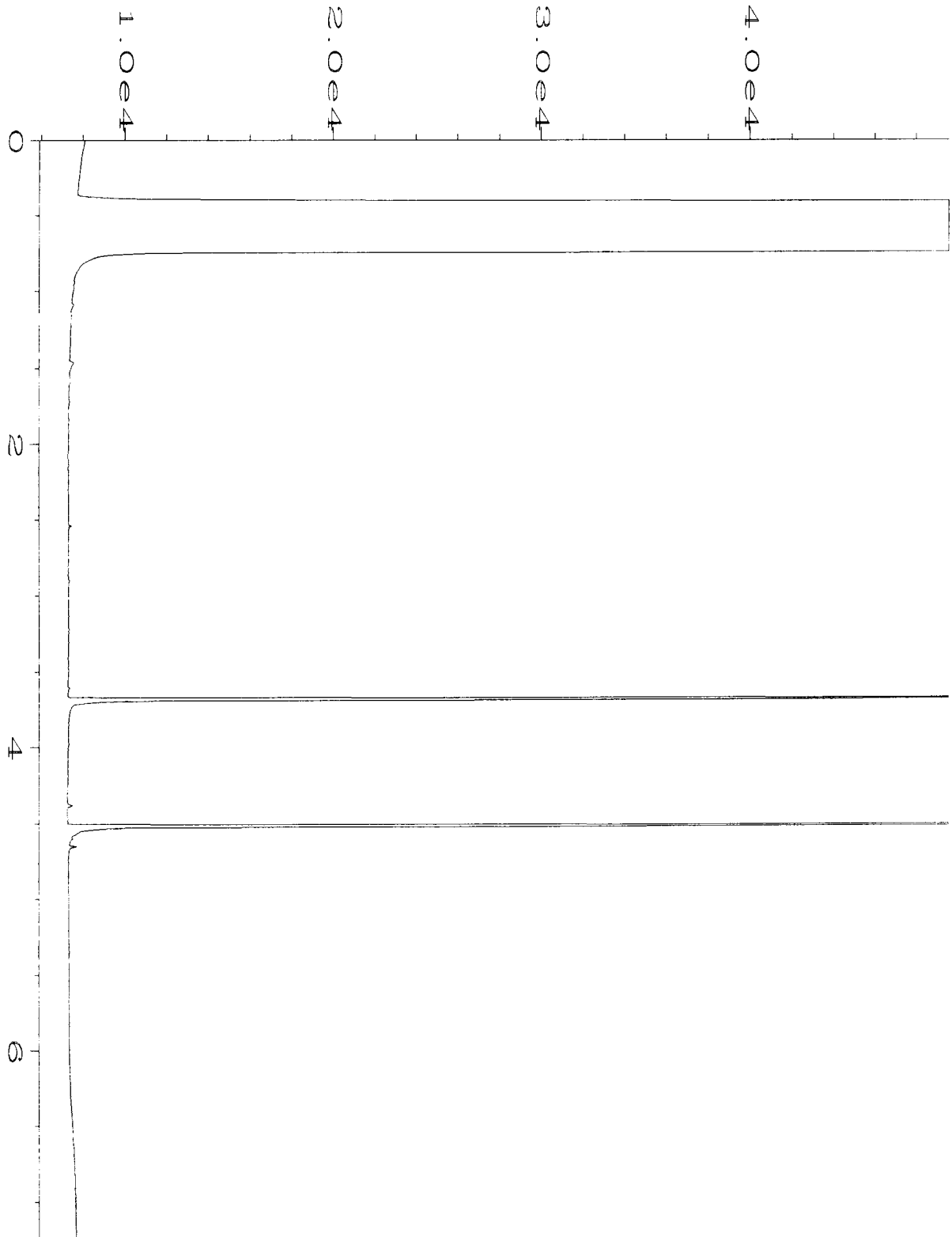
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

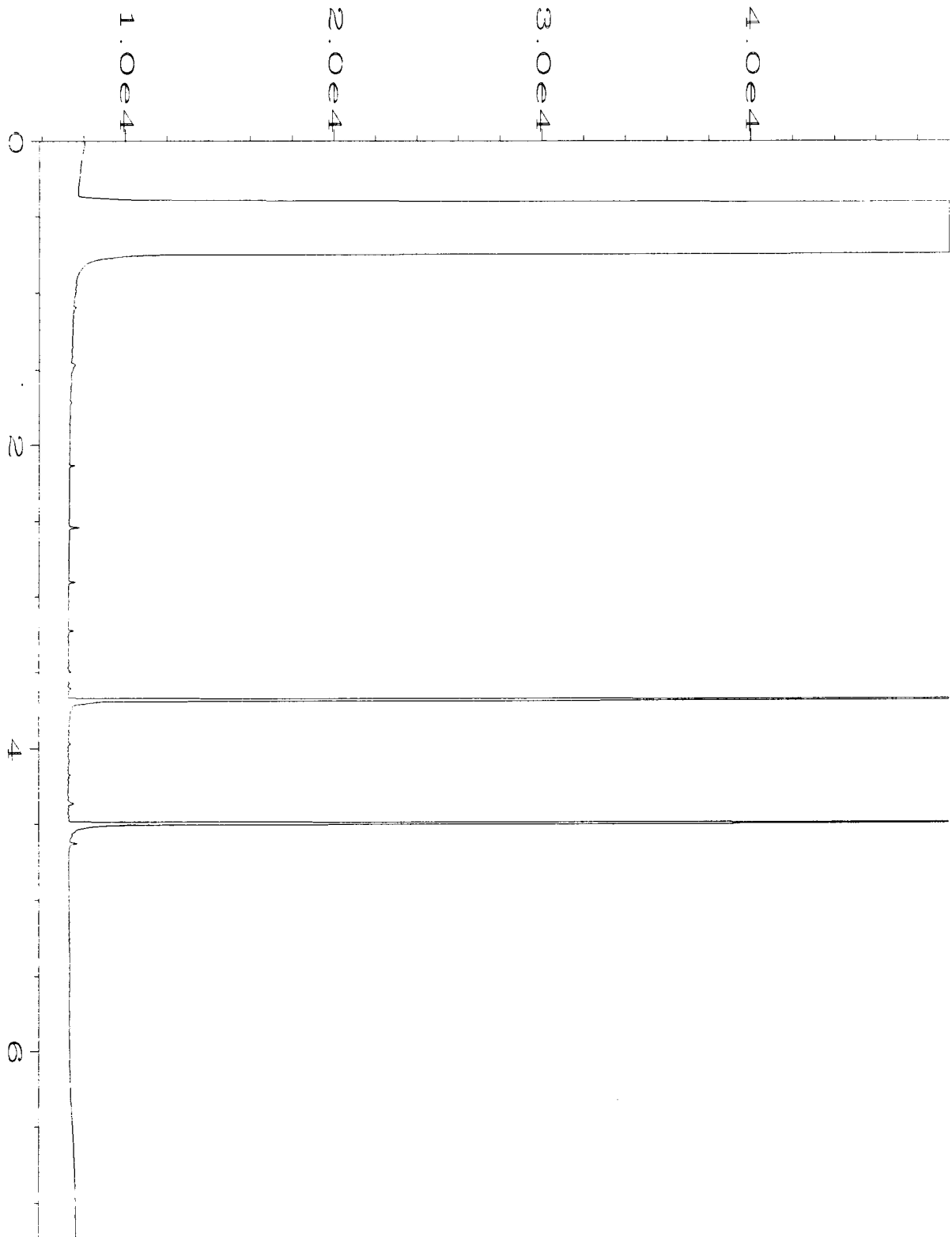
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

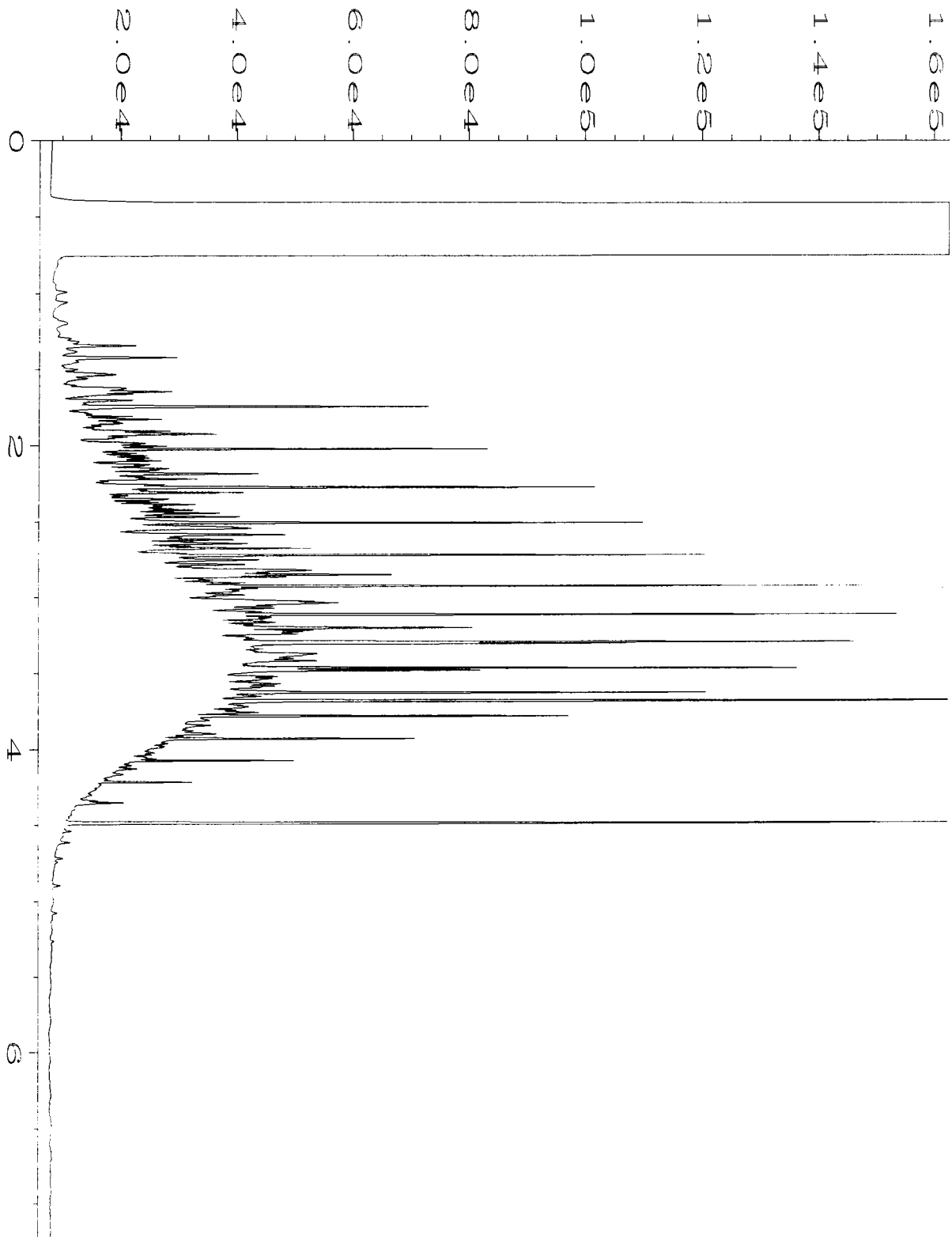
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-02-15\017F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 17 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 506028-01 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Jun 15 01:08 PM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Jun 15 08:29 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-02-15\018F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 18 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-1041 mb | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Jun 15 01:44 PM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Jun 15 08:29 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\06-02-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Jun 15 08:53 AM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Jun 15 08:29 AM | | |

506028

SAMPLE CHA OF CUSTODY ME 6/2/15

BOI/VS10

Page # 1 of 1

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) _____

PROJECT NAME/NO. 0914-001 PO # _____

REMARKS _____

TURNAROUND TIME
Standard (2 Weeks)
RUSH
Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | | |
|-------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|--------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 8267OSIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | | |
| S-01 CS-200 | CS | 250 | OIC | 6/2/15 | 08:00 | Soil | 3 | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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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 |
|------------------------|------------|--------------------------|--------|-------|
| Relinquished by: _____ | _____ | _____ | _____ | _____ |
| Received by: _____ | _____ | F&B | 6/2/15 | 1145 |
| Relinquished by: _____ | _____ | _____ | _____ | _____ |
| Received by: _____ | _____ | Samples received at 3 °C | | |

UST Laboratory Analytical Results

Friedman & Bruya, Inc. #504058

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 7, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 2, 2015 from the SOU_0914-001-12_20150402, F&BI 504058 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, JenniferCyr
SOU0407R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 2, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150402, F&BI 504058 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504058 -01 | UST05 |
| 504058 -02 | UST06 |

The samples were sent to Fremont for flashpoint analysis. Review of the enclosed report indicates that all quality assurance were acceptable.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504058

Date Extracted: 04/02/15

Date Analyzed: 04/02/15

**RESULTS FROM THE ANALYSIS OF SOIL/PRODUCT SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID
Results Reported as Not Detected (ND) or Detected (D)**

**THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT**

| <u>Sample ID</u> Laboratory ID | <u>Gasoline</u> | <u>Diesel</u> | <u>Heavy Oil</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|-----------------|---------------|------------------|---|
| UST05 504058-01 1/200 | ND | D | D | 90 |
| UST06 504058-02 1/200 | ND | D | D | 97 |
| Method Blank 05-683 MB | ND | ND | ND | 93 |

ND - Material not detected at or above 4,000mg/kg gas, 10,000 mg/kg diesel and 50,000 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|--------------|-------------|---------------------------------------|
| Client ID: | UST05 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/03/15 | Lab ID: | 504058-01 |
| Date Analyzed: | 04/03/15 | Data File: | 504058-01.030 |
| Matrix: | Soil/Product | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) | Operator: | ML |

| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
|--------------------|-------------|--------------|--------------|
| Germanium | 85 | 60 | 125 |
| Indium | 84 | 60 | 125 |
| Holmium | 90 | 60 | 125 |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
| Arsenic | <1 |
| Barium | 20.3 |
| Cadmium | <1 |
| Chromium | <1 |
| Lead | 328 |
| Mercury | <1 |
| Selenium | <1 |
| Silver | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|--------------|-------------|---------------------------------------|
| Client ID: | UST06 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/03/15 | Lab ID: | 504058-02 |
| Date Analyzed: | 04/03/15 | Data File: | 504058-02.031 |
| Matrix: | Soil/Product | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) | Operator: | ML |

| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
|--------------------|-------------|--------------|--------------|
| Germanium | 91 | 60 | 125 |
| Indium | 88 | 60 | 125 |
| Holmium | 94 | 60 | 125 |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
| Arsenic | <1 |
| Barium | 1.04 |
| Cadmium | <1 |
| Chromium | <1 |
| Lead | 252 |
| Mercury | <1 |
| Selenium | <1 |
| Silver | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|--------------|-------------|---------------------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | NA | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/03/15 | Lab ID: | I5-196 mb2 |
| Date Analyzed: | 04/03/15 | Data File: | I5-196 mb2.029 |
| Matrix: | Soil/Product | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) | Operator: | ML |

| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
|--------------------|-------------|--------------|--------------|
| Germanium | 98 | 60 | 125 |
| Indium | 98 | 60 | 125 |
| Holmium | 101 | 60 | 125 |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
| Arsenic | <1 |
| Barium | <1 |
| Cadmium | <1 |
| Chromium | <1 |
| Lead | <1 |
| Mercury | <1 |
| Selenium | <1 |
| Silver | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|--------------|-------------|---------------------------------------|
| Client Sample ID: | UST05 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 504058-01 1/2000 |
| Date Analyzed: | 04/03/15 | Data File: | 040234.D |
| Matrix: | Soil/Product | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 62 | 142 |
| Toluene-d8 | 100 | 55 | 145 |
| 4-Bromofluorobenzene | 95 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <100 |
| Chloroethane | <100 |
| 1,1-Dichloroethene | <100 |
| Methylene chloride | <500 |
| trans-1,2-Dichloroethene | <100 |
| 1,1-Dichloroethane | <100 |
| cis-1,2-Dichloroethene | <100 |
| 1,2-Dichloroethane (EDC) | <100 |
| 1,1,1-Trichloroethane | <100 |
| Trichloroethene | <100 |
| Tetrachloroethene | <100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|--------------|-------------|---------------------------------------|
| Client Sample ID: | UST06 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 504058-02 1/2000 |
| Date Analyzed: | 04/03/15 | Data File: | 040235.D |
| Matrix: | Soil/Product | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 101 | 62 | 142 |
| Toluene-d8 | 98 | 55 | 145 |
| 4-Bromofluorobenzene | 95 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <100 |
| Chloroethane | <100 |
| 1,1-Dichloroethene | <100 |
| Methylene chloride | <500 |
| trans-1,2-Dichloroethene | <100 |
| 1,1-Dichloroethane | <100 |
| cis-1,2-Dichloroethene | <100 |
| 1,2-Dichloroethane (EDC) | <100 |
| 1,1,1-Trichloroethane | <100 |
| Trichloroethene | <100 |
| Tetrachloroethene | <100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|------------------------|-------------|---------------------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 05-0646 mb |
| Date Analyzed: | 04/02/15 | Data File: | 040208.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 62 | 142 |
| Toluene-d8 | 98 | 55 | 145 |
| 4-Bromofluorobenzene | 94 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.05 |
| Chloroethane | <0.5 |
| 1,1-Dichloroethene | <0.05 |
| Methylene chloride | <0.5 |
| trans-1,2-Dichloroethene | <0.05 |
| 1,1-Dichloroethane | <0.05 |
| cis-1,2-Dichloroethene | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 |
| 1,1,1-Trichloroethane | <0.05 |
| Trichloroethene | <0.02 |
| Tetrachloroethene | <0.025 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

| | | | |
|-------------------|-------------|-------------|---------------------------------------|
| Client Sample ID: | UST05 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 504058-01 |
| Date Analyzed: | 04/03/15 | Data File: | 09.D\ECD1A.CH |
| Matrix: | Product | Instrument: | GC7 |
| Units: | mg/kg (ppm) | Operator: | VM |

| | | | |
|-------------|-------------|--------------|--------------|
| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
| TCMX | 91 | 37 | 158 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Aroclor 1221 | <2 |
| Aroclor 1232 | <2 |
| Aroclor 1016 | <2 |
| Aroclor 1242 | <2 |
| Aroclor 1248 | <2 |
| Aroclor 1254 | <2 |
| Aroclor 1260 | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

| | | | |
|-------------------|-------------|-------------|---------------------------------------|
| Client Sample ID: | UST06 | Client: | SoundEarth Strategies |
| Date Received: | 04/02/15 | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 504058-02 |
| Date Analyzed: | 04/03/15 | Data File: | 10.D\ECD1A.CH |
| Matrix: | Product | Instrument: | GC7 |
| Units: | mg/kg (ppm) | Operator: | VM |

| | | | |
|-------------|-------------|--------------|--------------|
| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
| TCMX | 94 | 37 | 158 |

| | |
|--------------|------------------------------|
| Compounds: | Concentration mg/kg (ppm) |
| Aroclor 1221 | <2 |
| Aroclor 1232 | <2 |
| Aroclor 1016 | <2 |
| Aroclor 1242 | <2 |
| Aroclor 1248 | <2 |
| Aroclor 1254 | <2 |
| Aroclor 1260 | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

| | | | |
|-------------------|----------------|-------------|---------------------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0914-001-12_20150402, F&BI 504058 |
| Date Extracted: | 04/02/15 | Lab ID: | 05-685 mb |
| Date Analyzed: | 04/02/15 | Data File: | 05.D\ECD1A.CH |
| Matrix: | Product | Instrument: | GC7 |
| Units: | mg/kg (ppm) | Operator: | ya |

| | | | |
|-------------|-------------|--------------|--------------|
| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
| TCMX | 99 | 37 | 158 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Aroclor 1221 | <2 |
| Aroclor 1232 | <2 |
| Aroclor 1016 | <2 |
| Aroclor 1242 | <2 |
| Aroclor 1248 | <2 |
| Aroclor 1254 | <2 |
| Aroclor 1260 | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504058

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 504041-02 (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 | <1 | 94 | 95 | 67-121 | 1 |
| Barium | mg/kg (ppm) | 50 | <1 | 102 | 106 | 74-135 | 4 |
| Cadmium | mg/kg (ppm) | 10 | <1 | 97 | 97 | 88-121 | 0 |
| Chromium | mg/kg (ppm) | 50 | <1 | 95 | 88 | 57-128 | 8 |
| Lead | mg/kg (ppm) | 50 | <1 | 100 | 99 | 59-148 | 1 |
| Mercury | mg/kg (ppm) | 10 | <1 | 94 | 94 | 50-150 | 0 |
| Selenium | mg/kg (ppm) | 5 | <1 | 89 | 90 | 55-130 | 1 |
| Silver | mg/kg (ppm) | 10 | <1 | 96 | 96 | 73-122 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|-----------------|-------------|----------------------|---------------------|
| Arsenic | mg/kg (ppm) | 10 | 99 | 83-113 |
| Barium | mg/kg (ppm) | 50 | 106 | 85-116 |
| Cadmium | mg/kg (ppm) | 10 | 99 | 85-114 |
| Chromium | mg/kg (ppm) | 50 | 98 | 78-121 |
| Lead | mg/kg (ppm) | 50 | 105 | 80-120 |
| Mercury | mg/kg (ppm) | 10 | 102 | 70-130 |
| Selenium | mg/kg (ppm) | 5 | 97 | 87-117 |
| Silver | mg/kg (ppm) | 10 | 100 | 78-117 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504058

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 504002-02 (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) | 2.5 | <0.05 | 53 | 51 | 10-138 | 4 |
| Chloroethane | mg/kg (ppm) | 2.5 | <0.5 | 69 | 64 | 10-176 | 8 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 68 | 66 | 10-160 | 3 |
| Methylene chloride | mg/kg (ppm) | 2.5 | <0.5 | 65 | 63 | 10-156 | 3 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 72 | 70 | 14-137 | 3 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 77 | 74 | 19-140 | 4 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 80 | 78 | 25-135 | 3 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | <0.05 | 77 | 74 | 12-160 | 4 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 68 | 67 | 10-156 | 1 |
| Trichloroethene | mg/kg (ppm) | 2.5 | <0.02 | 79 | 78 | 21-139 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | <0.025 | 74 | 74 | 20-133 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------------------|-----------------|-------------|----------------------|---------------------|
| Vinyl chloride | mg/kg (ppm) | 2.5 | 85 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2.5 | 96 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | 94 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2.5 | 80 | 42-132 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 92 | 67-127 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | 93 | 68-115 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 95 | 72-113 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | 89 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | 88 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2.5 | 99 | 64-117 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | 104 | 72-114 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/15

Date Received: 04/02/15

Project: SOU_0914-001-12_20150402, F&BI 504058

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF PRODUCT SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

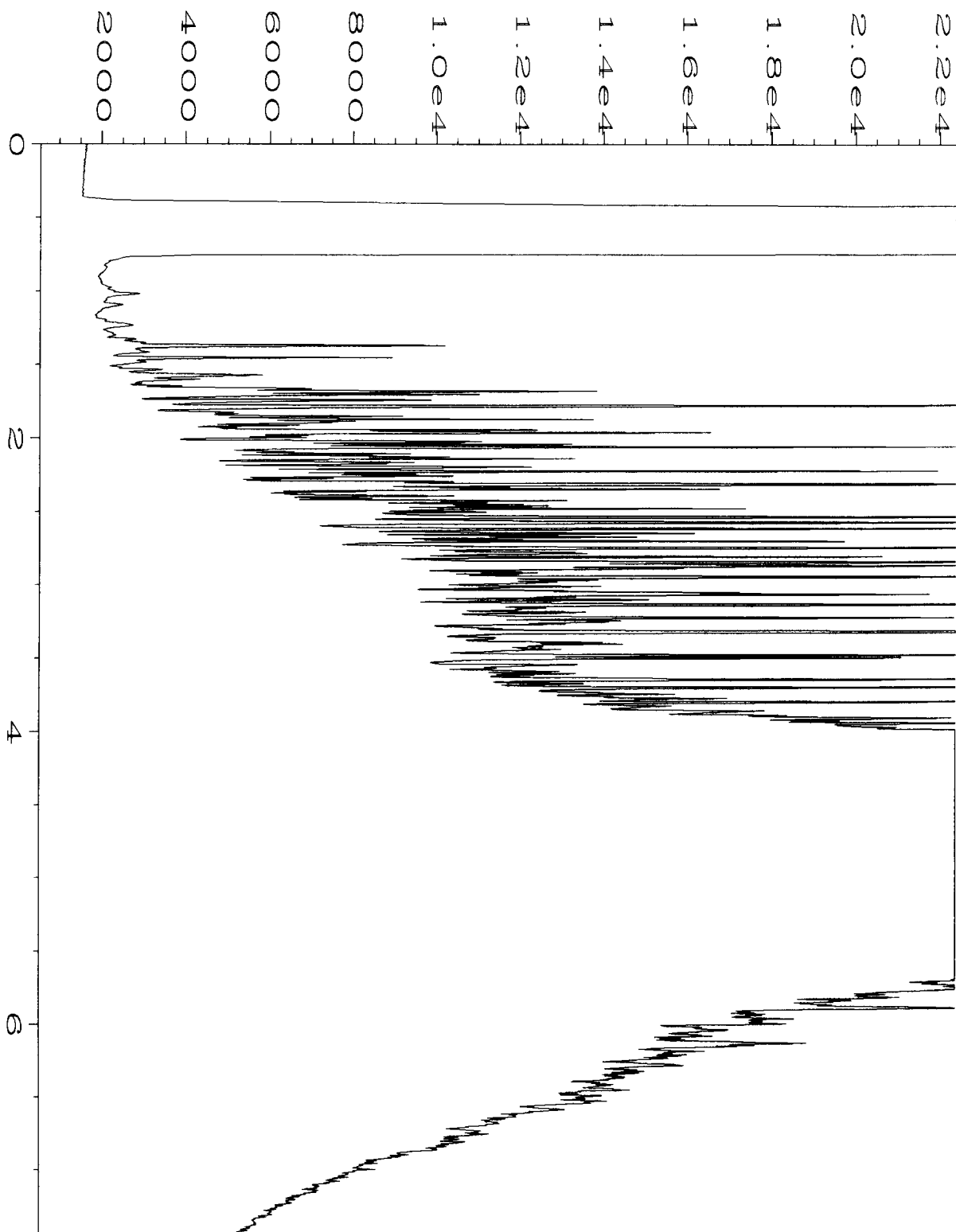
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Aroclor 1016 | mg/kg (ppm) | 100 | 106 | 97 | 60-151 | 9 |
| Aroclor 1260 | mg/kg (ppm) | 100 | 111 | 102 | 53-144 | 8 |

FRIEDMAN & BRUYA, INC.

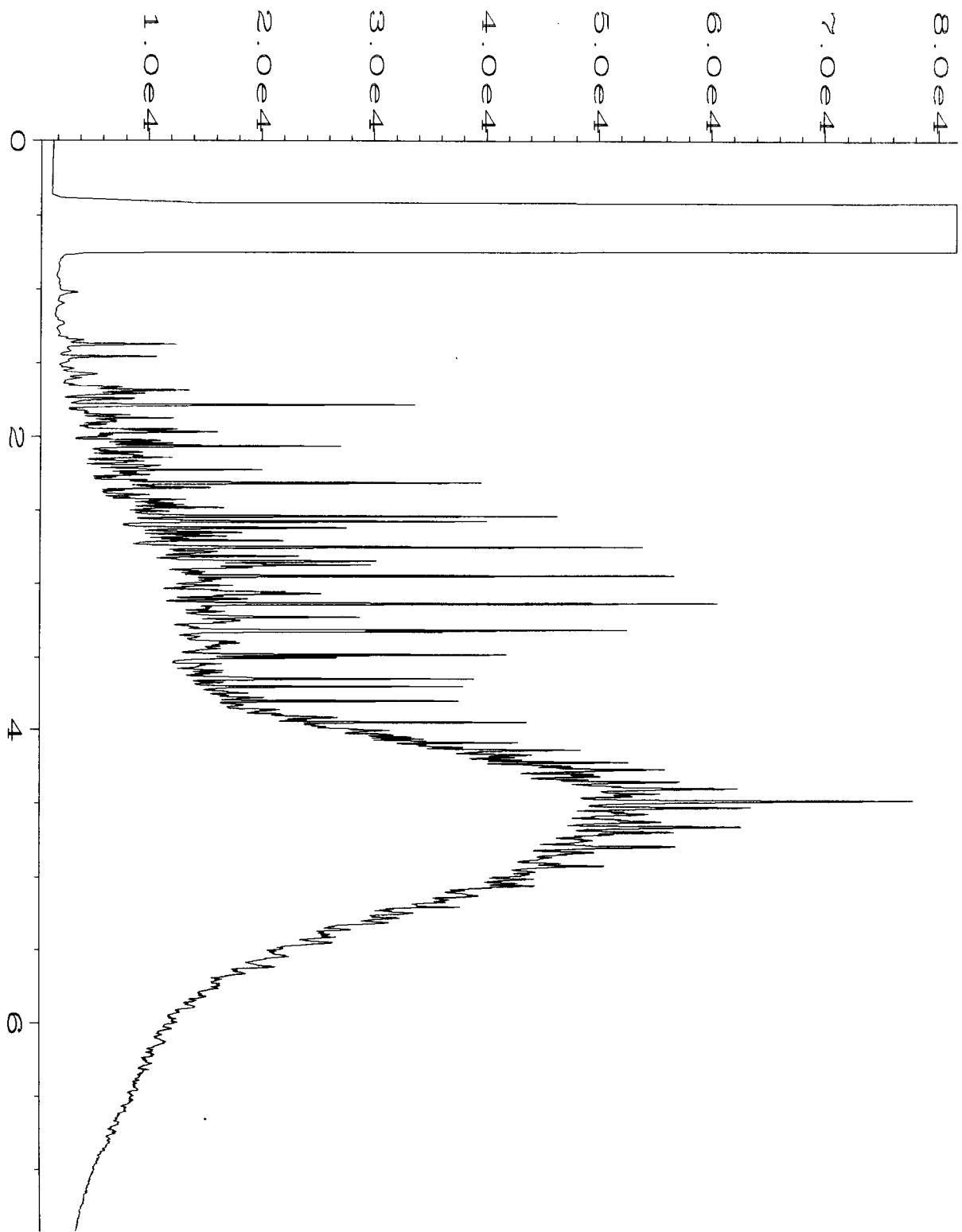
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

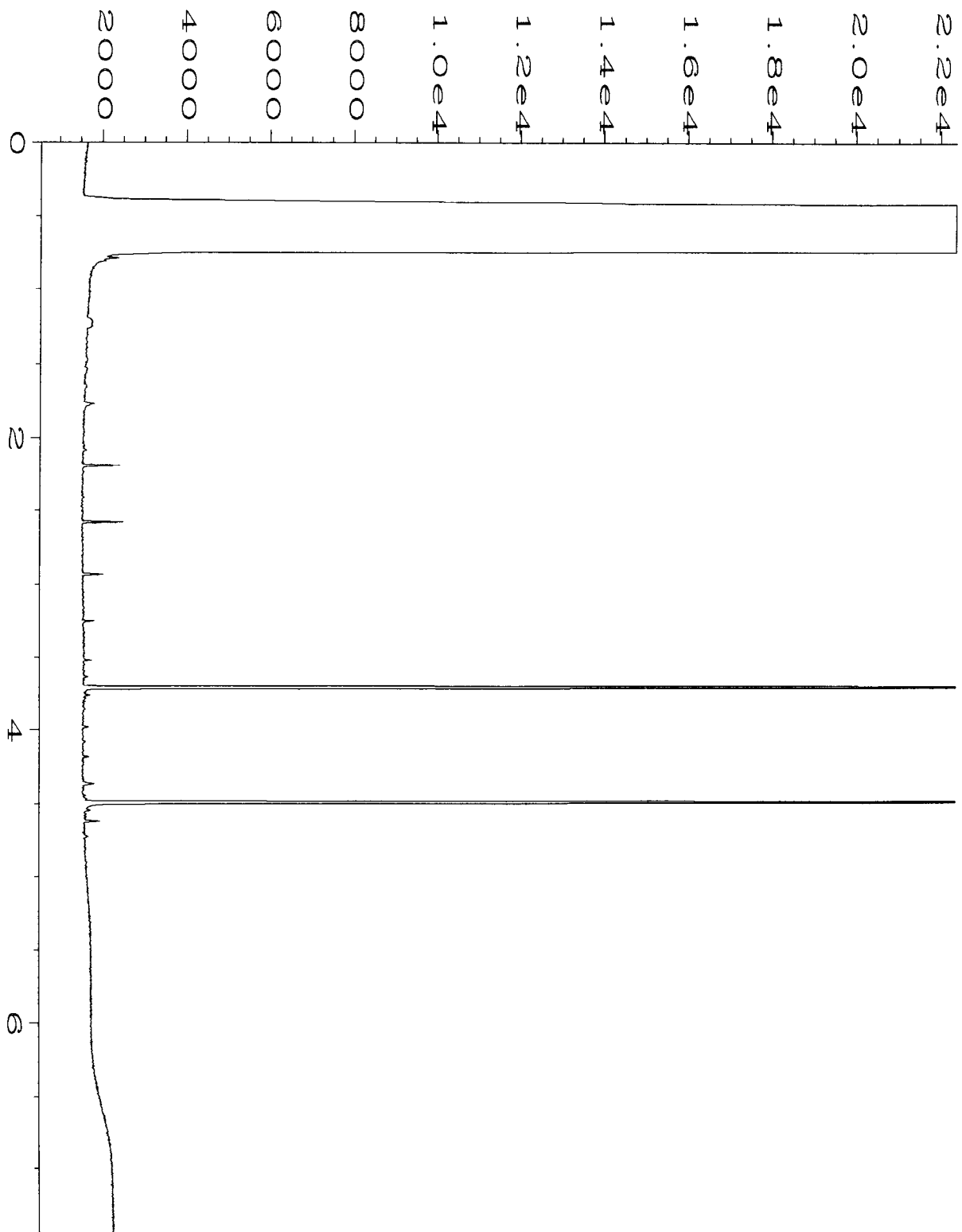
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



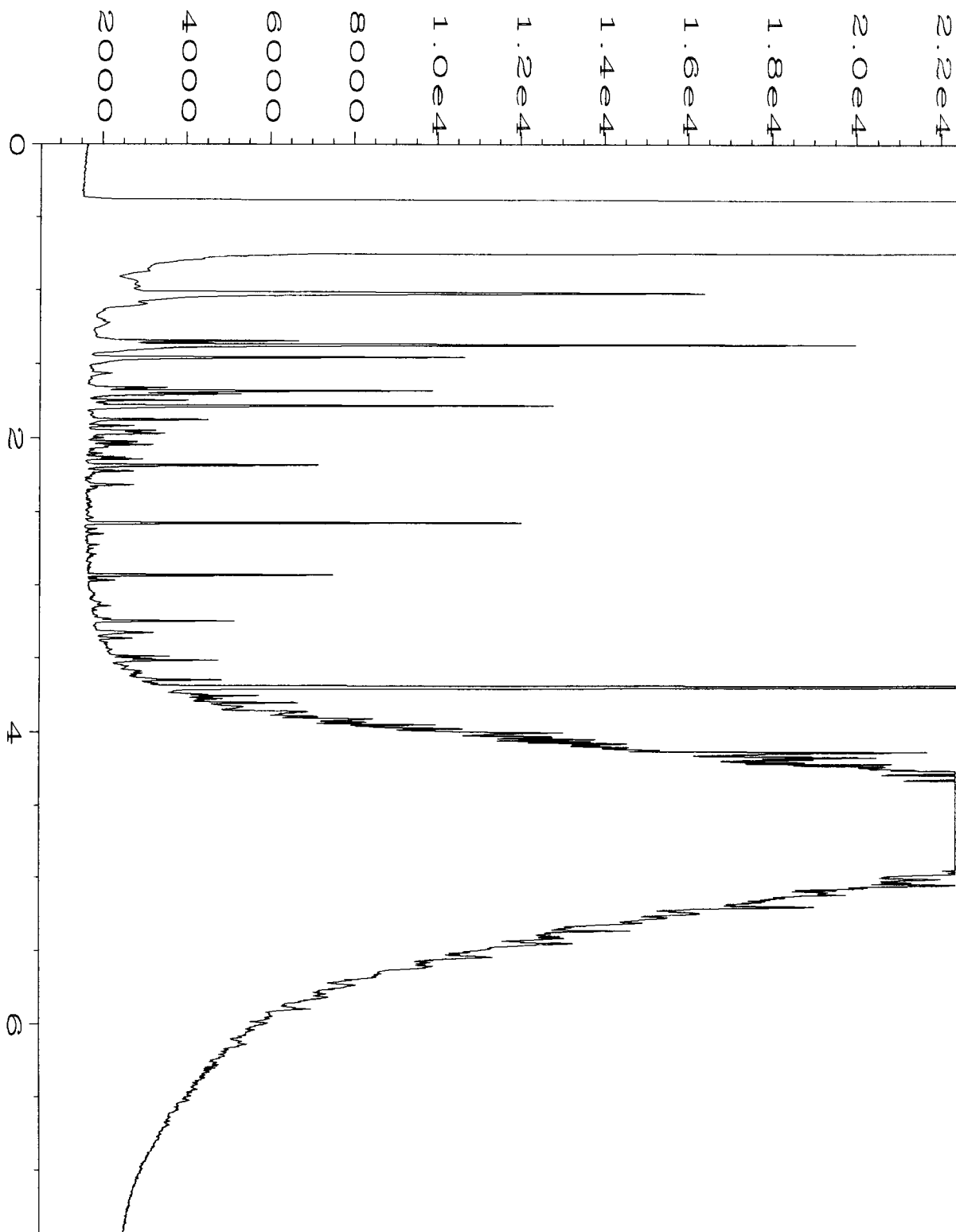
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-02-15\054F1201.D | Page Number | : 1 |
| Operator | : mwd1 | Vial Number | : 54 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504058-01 1/10 | Sequence Line | : 12 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 03 Apr 15 00:29 AM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 09:14 AM | | |



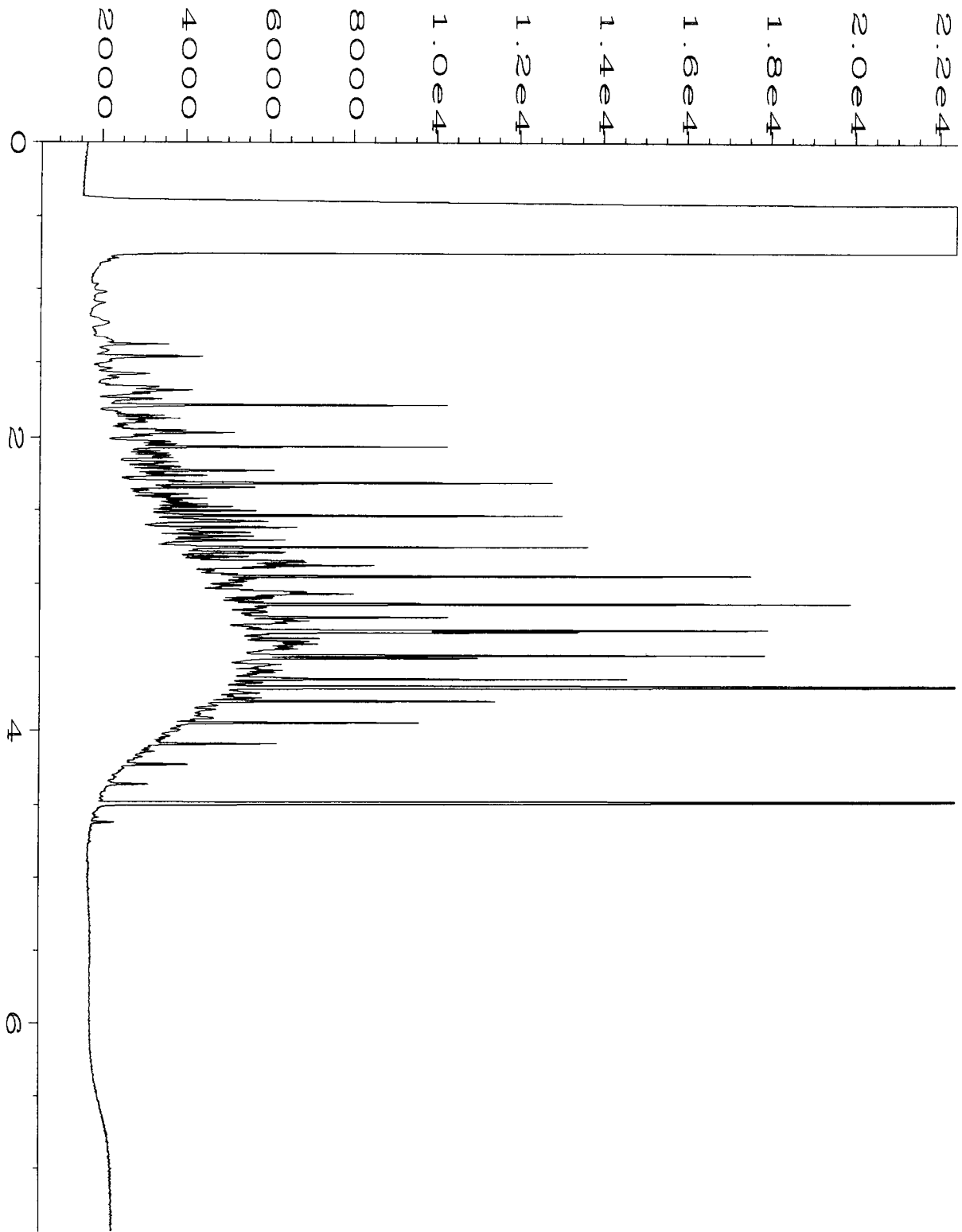
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-02-15\055F1201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 55 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504058-02 1/10 | Sequence Line | : 12 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 03 Apr 15 00:40 AM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 09:15 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-02-15\051F1201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 51 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-683 mb | Sequence Line | : 12 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Apr 15 11:53 PM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 09:14 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-02-15\096F1101.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 96 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : HCIDs G/M 42-129 | Sequence Line | : 11 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Apr 15 11:30 PM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 09:14 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-02-15\097F1101.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 97 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : HCIDs Dx 42-113C | Sequence Line | : 11 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 02 Apr 15 11:42 PM | Analysis Method | : DX.MTH |
| Report Created on: | 03 Apr 15 09:14 AM | | |



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 504058

Lab ID: 1504023

April 03, 2015

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 4/3/2015 for the analyses presented in the following report.

Flashpoint by EPA 1010/ASTM D93

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,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written over a light blue horizontal line.

Mike Ridgeway
President



Date: 04/03/2015

CLIENT: Friedman & Bruya
Project: 504058
Lab Order: 1504023

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1504023-001 | UST05a | 04/02/2015 1:25 PM | 04/03/2015 8:20 AM |
| 1504023-002 | UST06 | 04/02/2015 1:35 PM | 04/03/2015 8:20 AM |

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

CLIENT: Friedman & Bruya

Project: 504058

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").

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 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 LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

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



WO#: 1504023

Date Reported: 4/3/2015

CLIENT: Friedman & Bruya

Project: 504058

Lab ID: 1504023-001

Collection Date: 4/2/2015 1:25:00 PM

Client Sample ID: UST05a

Matrix: Product

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

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21648 Analyst: WC

| | | | | | | |
|------------|-----|--|--|----|---|---------------------|
| Flashpoint | 201 | | | °F | 1 | 4/3/2015 3:54:52 PM |
|------------|-----|--|--|----|---|---------------------|

NOTES:

Flame died when inserted; possible flash due to vapors putting out the flame. Flame stayed lit before and after noted temperature.

Lab ID: 1504023-002

Collection Date: 4/2/2015 1:35:00 PM

Client Sample ID: UST06

Matrix: Product

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

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21648 Analyst: WC

| | | | | | | |
|------------|------|--|--|----|---|---------------------|
| Flashpoint | 91.4 | | | °F | 1 | 4/3/2015 3:54:52 PM |
|------------|------|--|--|----|---|---------------------|

Work Order: 1504023
CLIENT: Friedman & Bruya
Project: 504058

QC SUMMARY REPORT
Flashpoint by EPA 1010/ASTM D93

| Sample ID | LCS-R21648 | SampType: | LCS | Units: | °F | Prep Date: | 4/3/2015 | RunNo: | 21648 | | |
|------------|------------|-----------|-----------|-------------|------|----------------|-----------|-------------|--------|----------|------|
| Client ID: | LCSW | Batch ID: | R21648 | | | Analysis Date: | 4/3/2015 | SeqNo: | 410501 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Flashpoint | 134 | | 152.0 | 0 | 88.5 | 65 | 135 | | | | |



Sample Log-In Check List

| | |
|--------------------------------|---|
| Client Name: FB | Work Order Number: 1504023 |
| Logged by: Clare Griggs | Date Received: 4/3/2015 8:20:00 AM |

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. 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"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|--------|---------|-----------|
| Cooler | 5.4 | Good |
| Sample | 4.0 | Good |

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

1504023

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|--|----------------------|
| SUBCONTRACTER <u>Fremont</u> | |
| PROJECT NAME/NO. <u>504058</u> | PO # <u>D-448</u> |
| REMARKS <u>Please Email Results</u> | |

Page # 1 of 1

TURNAROUND TIME
 Standard (2/Weeks)
 RUSH 4/3/15
 Rush charges authorized by:
MC

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | Dioxins and Furans by 8290 | EPH | VPH | Nitrate | Sulfate | Alkalinity | Fluoride | Notes |
|-----------|--------|--------------|--------------|---------|-----------|----------------------------|-----|-----|---------|---------|------------|----------|-------|
| UST05 a | | 4/2/15 | 1325 | product | 1 | | | | | | | X | |
| UST04 | | ↓ | 1335 | ↓ | 1 | | | | | | | X | |
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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 | 4/3/15 | 08:20 |
| | Claire Grogg | FAI | 4/3/15 | 8:20 |
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

1504023

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|--|----------------------|
| SUBCONTRACTOR <u>Fremont</u> | |
| PROJECT NAME/NO. <u>504058</u> | PC # <u>D-448</u> |
| REMARKS <u>Please Email Results</u> | |

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 4/3/15
 Rush charges authorized by:
ME

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | Dioxins and Furans by 8290 | EPH | VPH | Nitrate | Sulfate | Alkalinity | Fluoride | Notes |
|-----------|--------|--------------|--------------|---------|-----------|----------------------------|-----|-----|---------|---------|------------|----------|---------------------------|
| UST05 a | | 4/2/15 | 1325 | product | 1 | | | | | | | X | |
| UST06 | | ↓ | 1335 | ↓ | 1 | | | | | | | X | UST06: Per client 4/3 cog |
| | | | | | | | | | | | | | |
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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 | 4/3/15 | 08:20 |
| | Claire Griggs | FAI | 4/3/15 | 8:20 |
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

504058

SAMPLE CHAIN OF CUSTODY

ME 04-02-15

002

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

| | |
|--|------|
| SAMPLERS (signature) | |
| PROJECT NAME/NO. <u>0914-001-12</u> | PO # |
| REMARKS | |

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH 24 hr

Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | | Notes | |
|-----------|-----------------|--------------|--------|--------------|--------------|---------|-----------|--------------------|----------|---------------|------------------|----------------|---------------------|---------------------|---------------------|-------|---------------------|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | CVOCs by 8260C | PCBs by Method 8082 | PCBs by Method 8082 | PCBs by Method 8082 | | PCBs by Method 8082 |
| US705 | US705 | - | | 4/2/15 | 1525 | Product | 1 | | | | | X | X | X | X | X | |
| US706 | US706 | - | | ↓ | 1335 | ↓ | 1 | | | | | X | X | X | X | X | |
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Samples received at 4 °C

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 |
|------------------|------------|---------|--------|-------|
| Relinquished by: | Joe Taylor | SEI | 4/2/15 | 15:20 |
| Received by: | D & W | FBZ | " | 15:50 |
| Relinquished by: | | | | |
| Received by: | | | | |

Friedman & Bruya, Inc. #504162

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 14, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 9, 2015 from the SOU_0914-001-12_20150409, F&BI 504162 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr
SOU0414R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 9, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150409, F&BI 504162 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504162 -01 | UST05-BTM01-261 |
| 504162 -02 | UST06-BTM01-261 |
| 504162 -03 | UST05-NSW01-262 |
| 504162 -04 | UST06-ESW01-262 |
| 504162 -05 | UST06-WSW01-262 |
| 504162 -06 | UST06-SSW01-263 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/14/15

Date Received: 04/09/15

Project: SOU_0914-001-12_20150409, F&BI 504162

Date Extracted: 04/09/15

Date Analyzed: 04/09/15

**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) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| UST05-BTM01-261 504162-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| UST06-BTM01-261 504162-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| UST05-NSW01-262 504162-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| UST06-ESW01-262 504162-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| UST06-WSW01-262 504162-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 87 |
| UST06-SSW01-263 504162-06 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |
| Method Blank 05-0697 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 88 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/14/15
 Date Received: 04/09/15
 Project: SOU_0914-001-12_20150409, F&BI 504162
 Date Extracted: 04/10/15
 Date Analyzed: 04/10/15

**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> (% Recovery) (Limit 48-168) |
|-----------------------------------|--|---|--|
| UST05-BTM01-261 504162-01 | 87 x | 580 | 105 |
| UST06-BTM01-261 504162-02 | <50 | <250 | 95 |
| UST05-NSW01-262 504162-03 | <50 | <250 | 100 |
| UST06-ESW01-262 504162-04 | <50 | <250 | 105 |
| UST06-WSW01-262 504162-05 | <50 | <250 | 98 |
| UST06-SSW01-263 504162-06 | <50 | <250 | 102 |
| Method Blank 05-735 MB | <50 | <250 | 106 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/14/15

Date Received: 04/09/15

Project: SOU_0914-001-12_20150409, F&BI 504162

**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: 504104-02 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 87 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 88 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 87 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 87 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 105 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/14/15

Date Received: 04/09/15

Project: SOU_0914-001-12_20150409, F&BI 504162

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504162-01 (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 | 390 | 97 | 106 | 73-135 | 9 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 95 | 74-139 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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

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

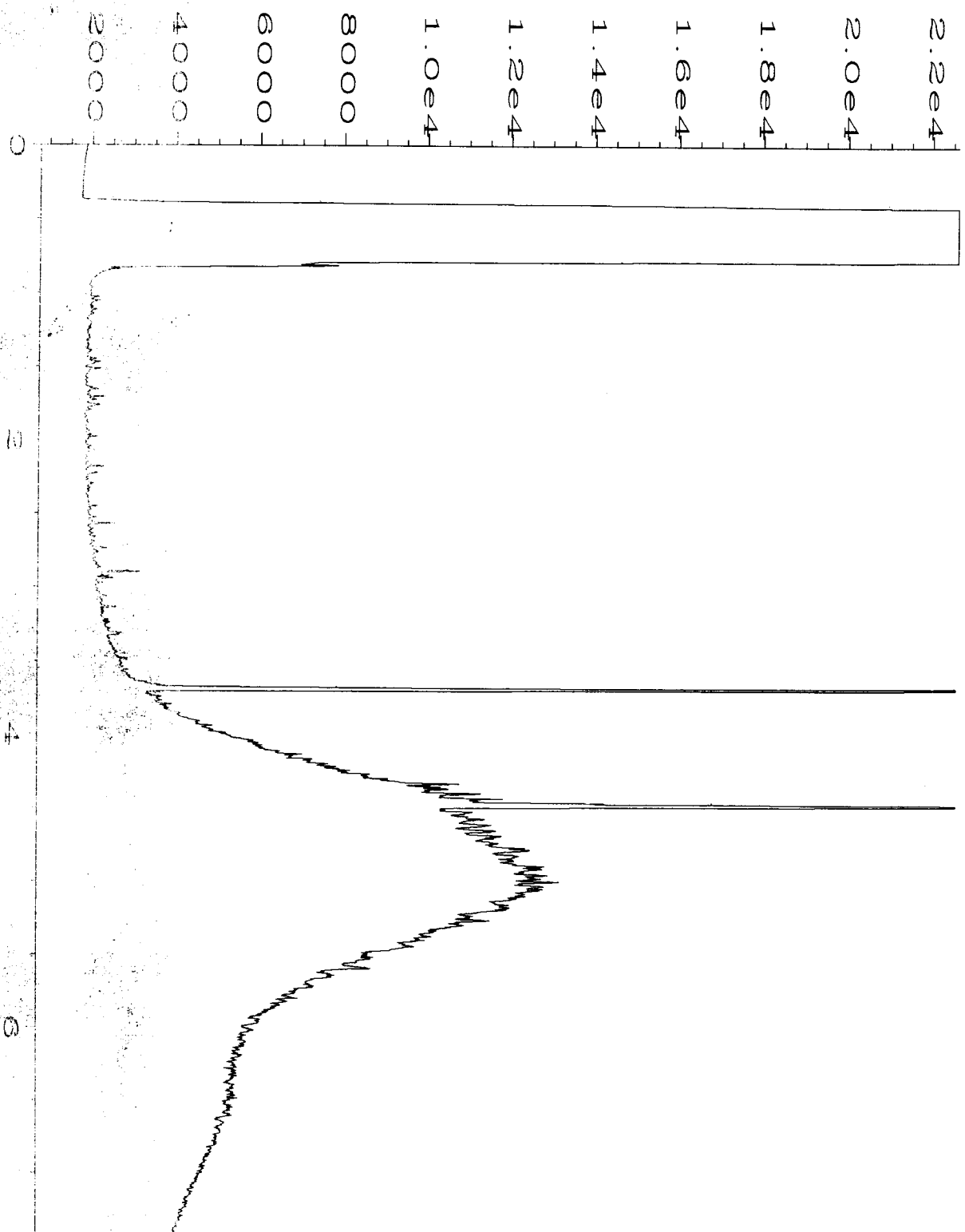
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

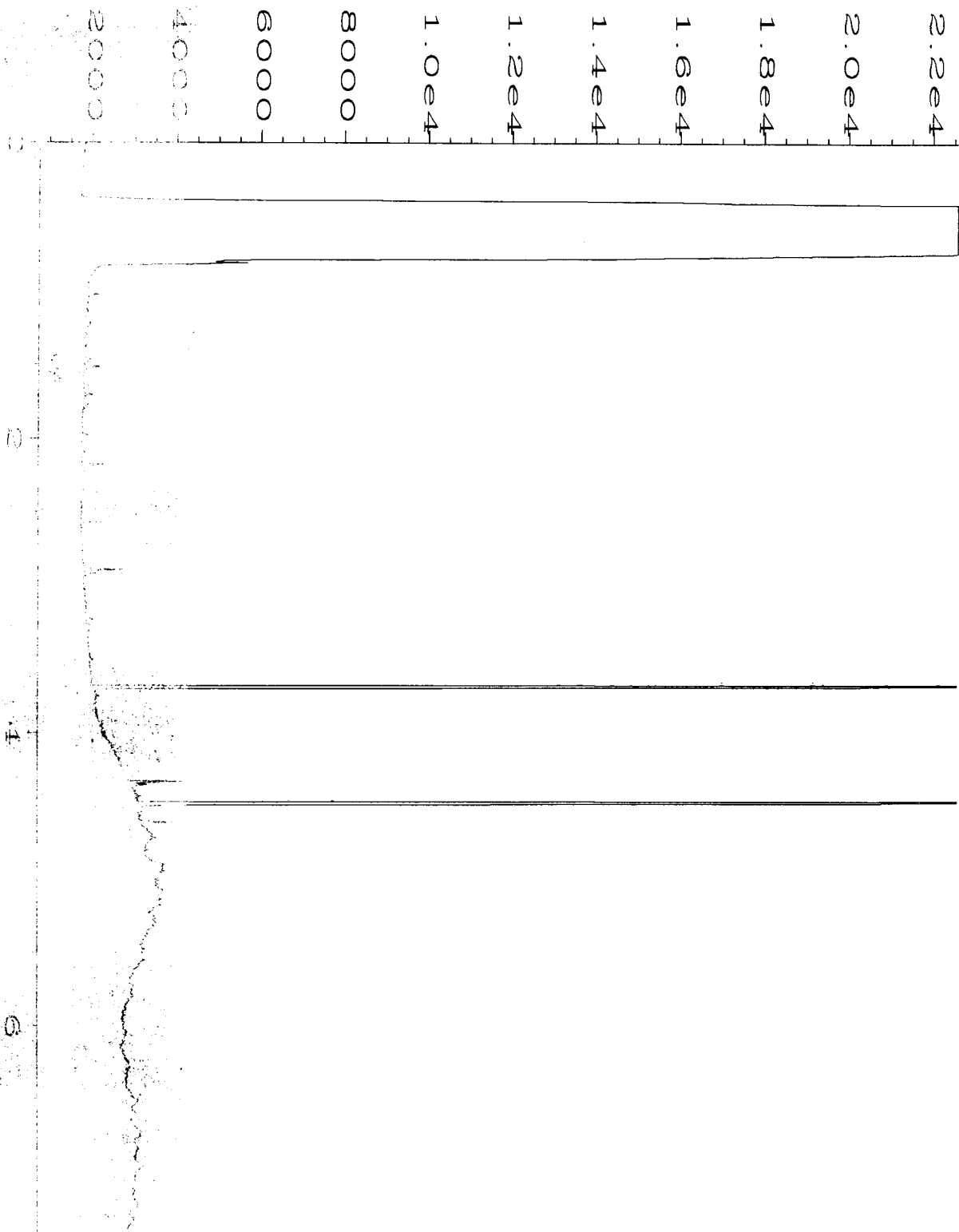
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

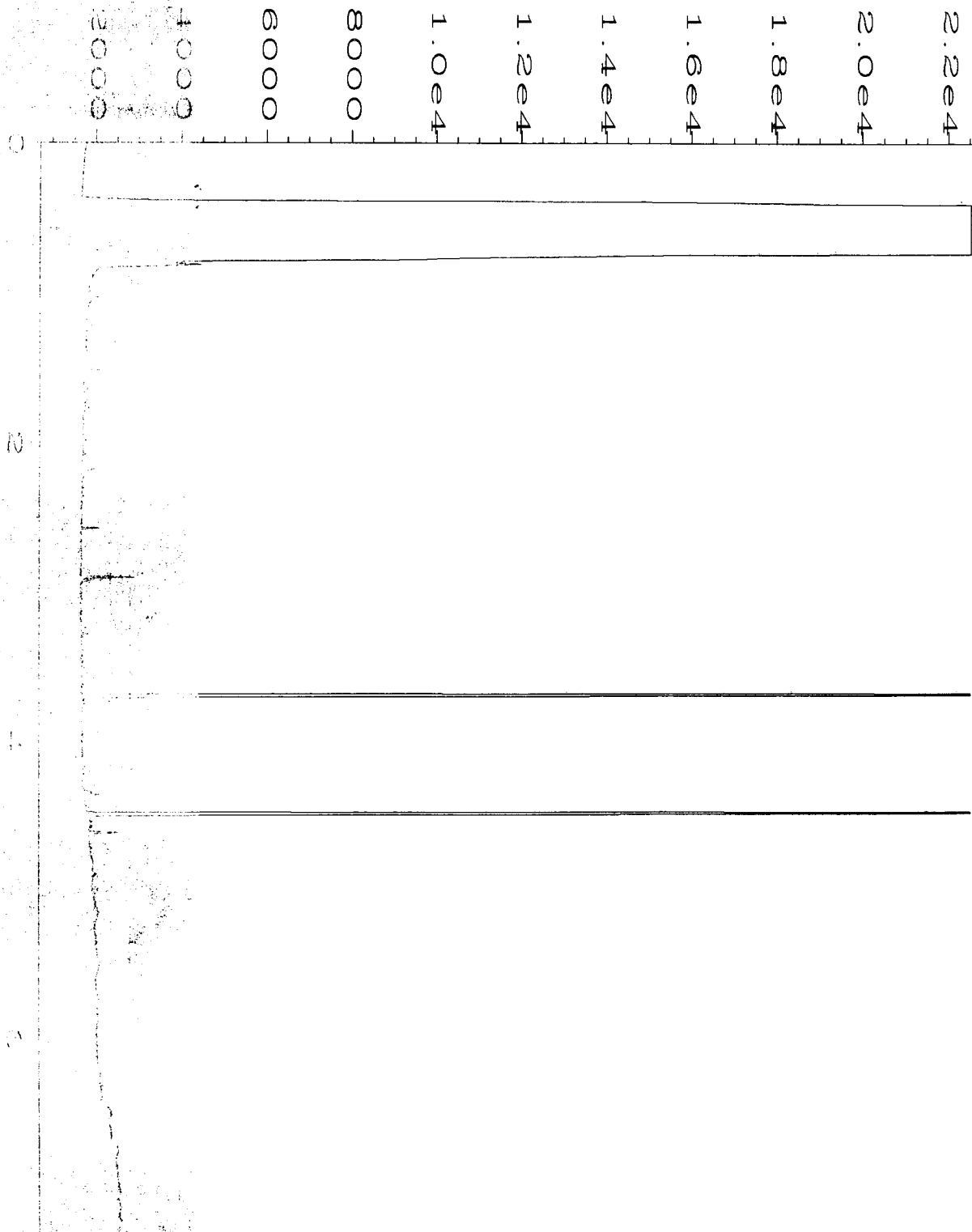
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



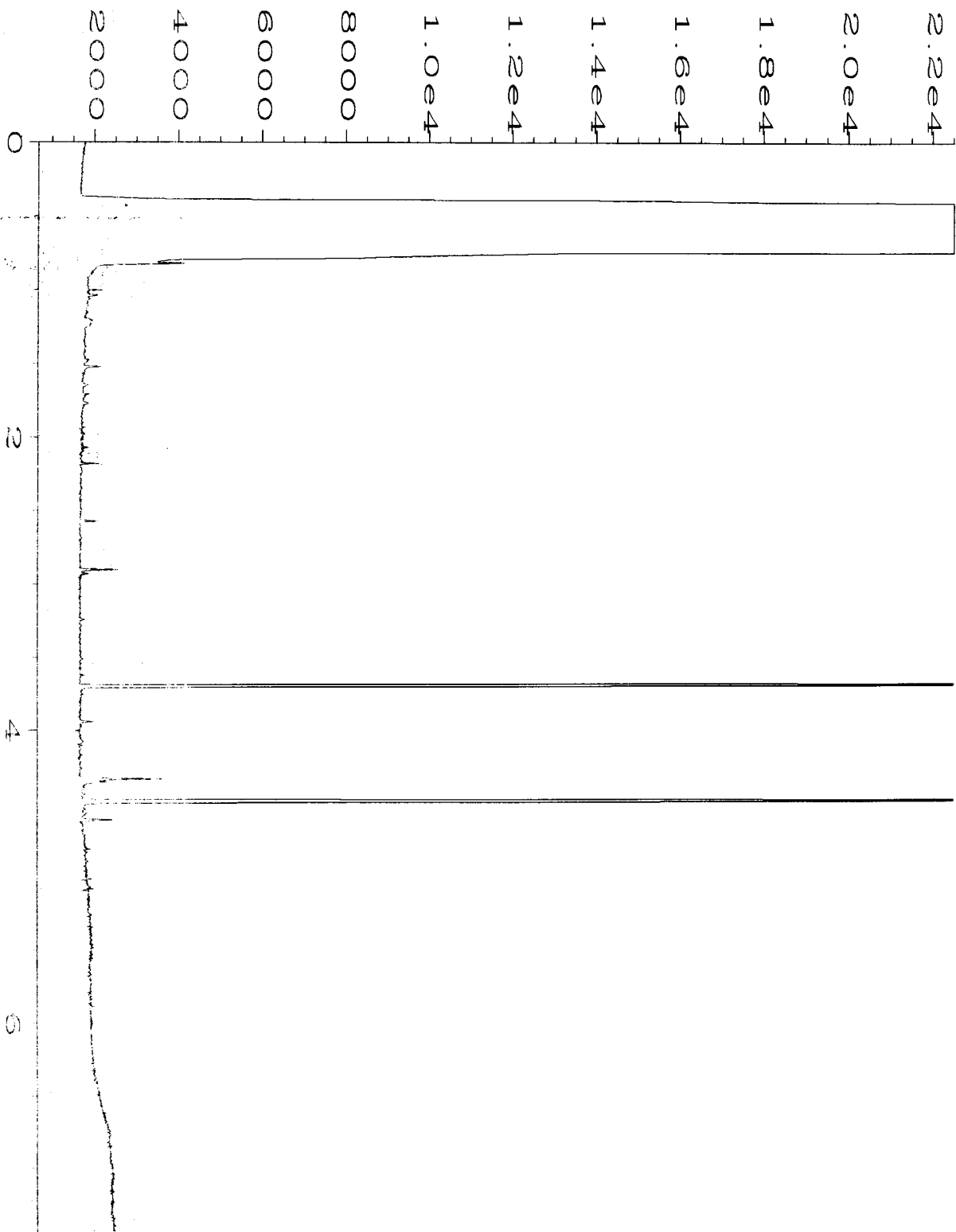
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\008F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 8 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504162-01 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 10 Apr 15 11:31 AM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:49 AM | | |



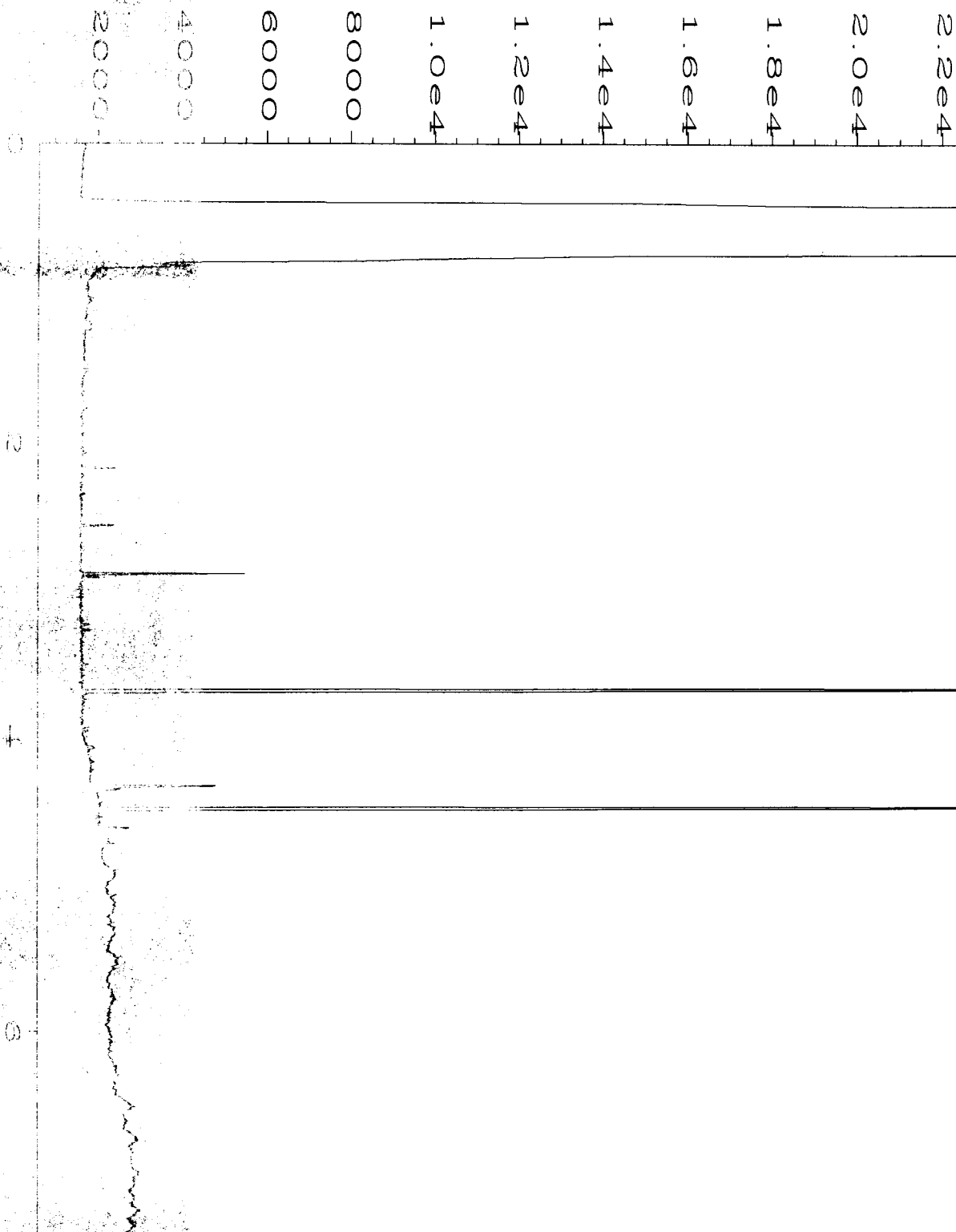
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\009F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 9 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504162-02 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 10 Apr 15 11:42 AM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:50 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\010F0301.D | Page Number | : 1 |
| Operator | : mwd1 | Vial Number | : 10 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504162-03 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 10 Apr 15 11:54 AM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:50 AM | | |



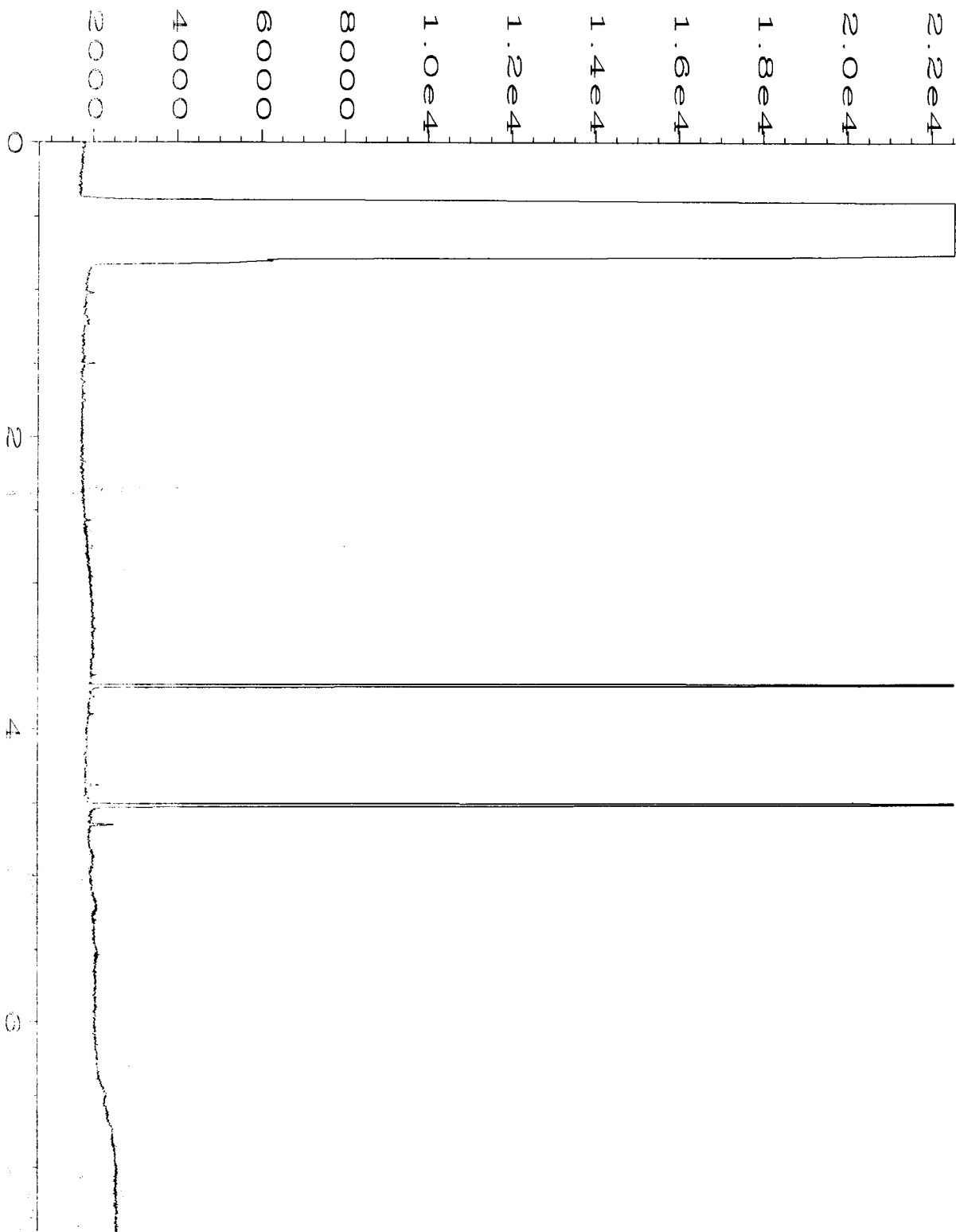
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\011F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 11 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504162-04 | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 10 Apr 15 12:05 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:50 AM | | |



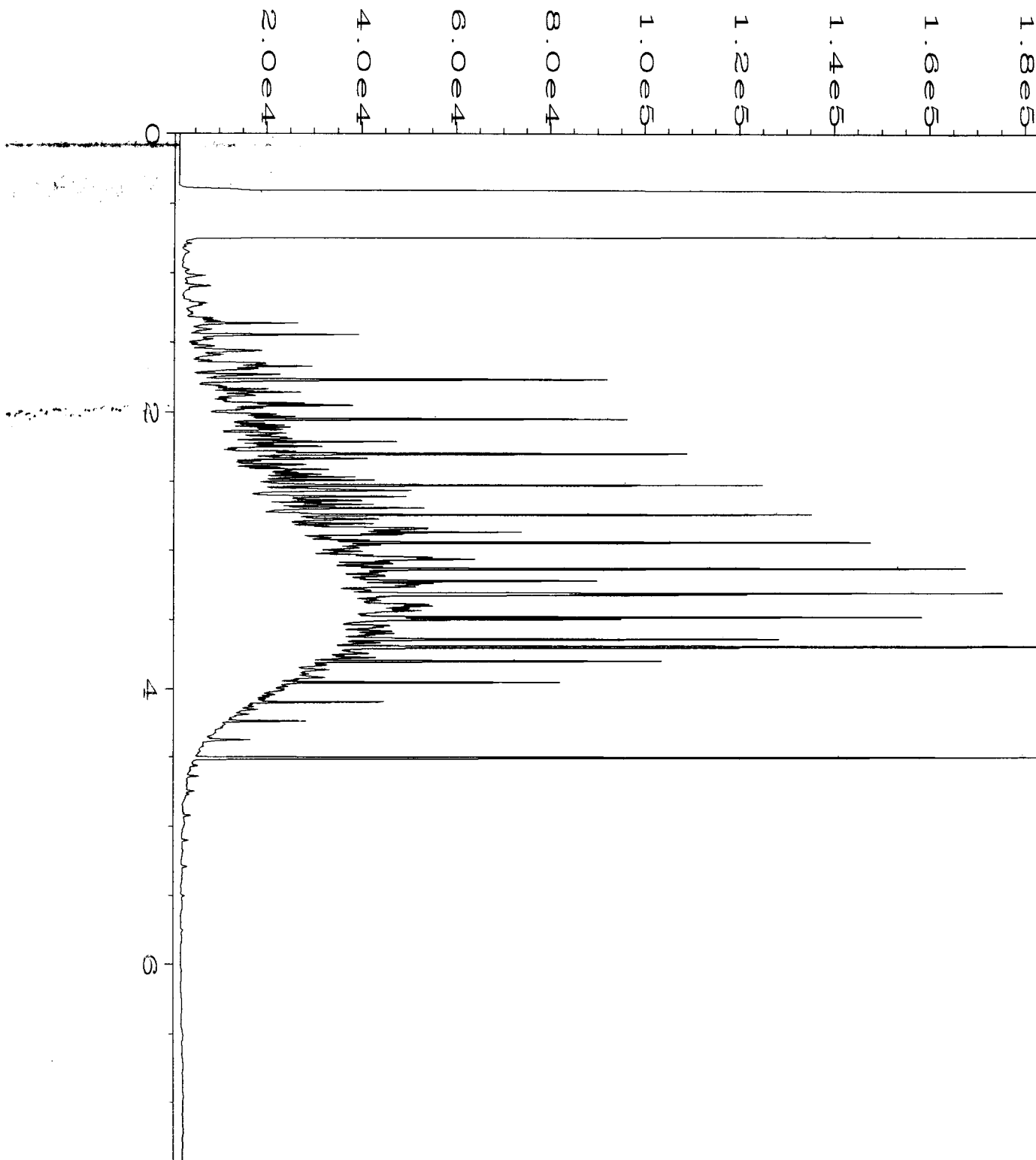
| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\012F0401.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 12 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 504162-05 | Sequence Line | : 4 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 10 Apr 15 01:38 PM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:50 AM | | |

2.2e4
2.0e4
1.8e4
1.6e4
1.4e4
1.2e4
1.0e4
8000
6000
4000
2000

Data File Name : C:\HPCHEM\4\DATA\04-10-15\013F0301.D
Operator : mwdl
Instrument : GC#4
Sample Name : 504162-06
Run Time Bar Code :
Acquired on : 10 Apr 15 12:29 PM
Report Created on: 13 Apr 15 09:50 AM
Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DX.MTH



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\006F0301.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 6 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 05-735 mb | Sequence Line | : 3 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 10 Apr 15 11:10 AM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:49 AM | | |



| | | | |
|--------------------|--|-------------------|----------|
| Data File Name | : C:\HPCHEM\4\DATA\04-10-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC#4 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method | : DX.MTH |
| Acquired on | : 10 Apr 15 09:26 AM | Analysis Method | : DX.MTH |
| Report Created on: | 13 Apr 15 09:49 AM | | |

SAMPLE CHA OF CUSTODY ME 4/9/15

504162

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. SKS Shell / 0914-001-12 PO # 0914-001-12

REMARKS *HOLD second 4oz jar for possible forensics analysis: oUST05-BTM01-261 oUST06-BTM01-261

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | Notes | |
|-----------------|-----------------|--------------|--------|--------------|--------------|--------|-----------|---------------------------|----------|---------------|------------------|---------------|-----------------|---------------------|-------|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 82670SIM | VOCs by 8260C | Metals by 200.8 | PCBs by Method 8082 | | |
| UST05-BTM01-261 | UST05 BTM | 261' | 01 A-F | 4/8/15 | 1625 | SOIL | 6 | X | X | X | | | | | | *HOLD ONE 4oz jar for possible forensics |
| UST06-BTM01-261 | UST06 BTM | 261' | 02 | | 1630 | | 6 | X | X | X | | | | | | *HOLD ONE 4oz jar for possible forensics |
| UST05-NSW01-262 | UST05 NSW | 262' | 03 A-E | | 1640 | | 5 | X | X | X | | | | | | |
| UST06-ESW01-262 | UST06 ESW | 262' | 04 | | 1644 | | 5 | X | X | X | | | | | | |
| UST06-WSW01-262 | UST06 WSW | 262' | 05 | | 1646 | | 5 | X | X | X | | | | | | |
| UST06-SSW01-263 | UST06 SSW | 263' | 06 | | 1648 | | 5 | X | X | X | | | | | | |
| | | | | | | | | <i>[Signature]</i> 4/8/15 | | | | | | | | |

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 |
|-------------------------------------|-------------------|------------|--------|------|
| Relinquished by: <i>[Signature]</i> | JONATHAN LOEFFLER | SOUNDEARTH | 4/8/15 | 1131 |
| Received by: <i>[Signature]</i> | Nhan Phan | FEBI | 4/9/15 | 1131 |
| Relinquished by: | | | | |
| Received by: | | | | |

Sample received at 4

Friedman & Bruya, Inc. #504241

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 22, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 14, 2015 from the SOU_0914-001-12_20150414, F&BI 504241 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jennifer Cyr, Jonathan Loeffler
SOU0422R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 14, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150414, F&BI 504241 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
504241 -01

SoundEarth Strategies
UST07

Sample UST07 was sent to Fremont for flashpoint analysis. Review of the enclosed report indicates that all quality assurance were acceptable.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/15

Date Received: 04/14/15

Project: SOU_0914-001-12_20150414, F&BI 504241

Date Extracted: 04/14/15

Date Analyzed: 04/14/15

**RESULTS FROM THE ANALYSIS OF SOIL/PRODUCT SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID
Results Reported as Not Detected (ND) or Detected (D)**

**THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT**

| <u>Sample ID</u> Laboratory ID | <u>Gasoline</u> | <u>Diesel</u> | <u>Heavy Oil</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|-----------------|---------------|------------------|---|
| UST07 504241-01 1/10 | D | ND | D | 103 |
| Method Blank 05-765 MB | ND | ND | ND | 105 |

ND - Material not detected at or above 2,000 mg/kg gas, 5,000 mg/kg diesel and 25,000 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|---------------------------------------|
| Client ID: | UST07 | Client: | SoundEarth Strategies |
| Date Received: | 04/14/15 | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | 504241-01 |
| Date Analyzed: | 04/15/15 | Data File: | 504241-01.023 |
| Matrix: | Soil/Product | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | ML |

| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
|--------------------|-------------|--------------|--------------|
| Germanium | 86 | 60 | 125 |
| Indium | 85 | 60 | 125 |
| Holmium | 94 | 60 | 125 |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
| Arsenic | <1 |
| Barium | 4.89 |
| Cadmium | <1 |
| Chromium | 1.82 |
| Lead | 1,230 |
| Mercury | <1 |
| Selenium | <1 |
| Silver | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|---------------------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | NA | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | I5-222 mb |
| Date Analyzed: | 04/15/15 | Data File: | I5-222 mb.010 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | ML |

| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
|--------------------|-------------|--------------|--------------|
| Germanium | 94 | 60 | 125 |
| Indium | 94 | 60 | 125 |
| Holmium | 102 | 60 | 125 |

| Analyte: | Concentration mg/kg (ppm) |
|----------|------------------------------|
| Arsenic | <1 |
| Barium | <1 |
| Cadmium | <1 |
| Chromium | <1 |
| Lead | <1 |
| Mercury | <1 |
| Selenium | <1 |
| Silver | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|------------------------|-------------|---------------------------------------|
| Client Sample ID: | UST07 | Client: | SoundEarth Strategies |
| Date Received: | 04/14/15 | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | 504241-01 1/2000 |
| Date Analyzed: | 04/14/15 | Data File: | 041407.D |
| Matrix: | Soil/Product | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 99 | 62 | 142 |
| Toluene-d8 | 100 | 55 | 145 |
| 4-Bromofluorobenzene | 99 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <100 |
| Chloroethane | <1,000 |
| 1,1-Dichloroethene | <100 |
| Methylene chloride | <1,000 |
| trans-1,2-Dichloroethene | <100 |
| 1,1-Dichloroethane | <100 |
| cis-1,2-Dichloroethene | <100 |
| 1,2-Dichloroethane (EDC) | <100 |
| 1,1,1-Trichloroethane | <100 |
| Trichloroethene | <40 |
| Tetrachloroethene | <50 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|-------------------|------------------------|-------------|---------------------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | 05-0719 mb |
| Date Analyzed: | 04/14/15 | Data File: | 041406.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 100 | 62 | 142 |
| Toluene-d8 | 100 | 55 | 145 |
| 4-Bromofluorobenzene | 97 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------------------|------------------------------|
| Vinyl chloride | <0.05 |
| Chloroethane | <0.5 |
| 1,1-Dichloroethene | <0.05 |
| Methylene chloride | <0.5 |
| trans-1,2-Dichloroethene | <0.05 |
| 1,1-Dichloroethane | <0.05 |
| cis-1,2-Dichloroethene | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 |
| 1,1,1-Trichloroethane | <0.05 |
| Trichloroethene | <0.02 |
| Tetrachloroethene | <0.025 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

| | | | |
|-------------------|-------------|-------------|---------------------------------------|
| Client Sample ID: | UST07 | Client: | SoundEarth Strategies |
| Date Received: | 04/14/15 | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | 504241-01 |
| Date Analyzed: | 04/14/15 | Data File: | 041422.D\ECD1A.CH |
| Matrix: | Product | Instrument: | GC7 |
| Units: | mg/kg (ppm) | Operator: | mcp |

| | | | |
|-------------|-------------|--------------|--------------|
| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
| TCMX | 89 | 37 | 158 |

| Compounds: | Concentration mg/kg (ppm) |
|--------------|------------------------------|
| Aroclor 1221 | <2 |
| Aroclor 1232 | <2 |
| Aroclor 1016 | <2 |
| Aroclor 1242 | <2 |
| Aroclor 1248 | <2 |
| Aroclor 1254 | <2 |
| Aroclor 1260 | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

| | | | |
|-------------------|----------------|-------------|---------------------------------------|
| Client Sample ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | Not Applicable | Project: | SOU_0914-001-12_20150414, F&BI 504241 |
| Date Extracted: | 04/14/15 | Lab ID: | 05-746 mb2 |
| Date Analyzed: | 04/14/15 | Data File: | 20.D\ECD1A.CH |
| Matrix: | Product | Instrument: | GC7 |
| Units: | mg/kg (ppm) | Operator: | mcp |

| | | | |
|-------------|-------------|--------------|--------------|
| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
| TCMX | 95 | 37 | 158 |

| | |
|--------------|------------------------------|
| Compounds: | Concentration mg/kg (ppm) |
| Aroclor 1221 | <2 |
| Aroclor 1232 | <2 |
| Aroclor 1016 | <2 |
| Aroclor 1242 | <2 |
| Aroclor 1248 | <2 |
| Aroclor 1254 | <2 |
| Aroclor 1260 | <2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/15

Date Received: 04/14/15

Project: SOU_0914-001-12_20150414, F&BI 504241

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 504171-02 (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 | 1.92 | 75 | 80 | 67-121 | 6 |
| Barium | mg/kg (ppm) | 50 | 20.4 | 79 | 86 | 74-135 | 8 |
| Cadmium | mg/kg (ppm) | 10 | <1 | 89 | 94 | 88-121 | 5 |
| Chromium | mg/kg (ppm) | 50 | 7.50 | 76 | 80 | 57-128 | 5 |
| Lead | mg/kg (ppm) | 50 | 7.41 | 81 | 87 | 59-148 | 7 |
| Mercury | mg/kg (ppm) | 10 | <1 | 93 | 101 | 50-150 | 8 |
| Selenium | mg/kg (ppm) | 5 | <1 | 81 | 84 | 55-130 | 4 |
| Silver | mg/kg (ppm) | 10 | <1 | 79 | 85 | 73-122 | 7 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|-----------------|-------------|----------------------|---------------------|
| Arsenic | mg/kg (ppm) | 10 | 97 | 83-113 |
| Barium | mg/kg (ppm) | 50 | 104 | 85-116 |
| Cadmium | mg/kg (ppm) | 10 | 105 | 85-114 |
| Chromium | mg/kg (ppm) | 50 | 95 | 78-121 |
| Lead | mg/kg (ppm) | 50 | 102 | 80-120 |
| Mercury | mg/kg (ppm) | 10 | 100 | 70-130 |
| Selenium | mg/kg (ppm) | 5 | 99 | 87-117 |
| Silver | mg/kg (ppm) | 10 | 99 | 78-117 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/15

Date Received: 04/14/15

Project: SOU_0914-001-12_20150414, F&BI 504241

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 504241-01 1/2000 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet wt) | Duplicate Result (Wet wt) | RPD (Limit 20) |
|--------------------------|-----------------|------------------------|---------------------------|----------------|
| Vinyl chloride | mg/kg (ppm) | <100 | <100 | nm |
| Chloroethane | mg/kg (ppm) | <1,000 | <1,000 | nm |
| 1,1-Dichloroethene | mg/kg (ppm) | <100 | <100 | nm |
| Methylene chloride | mg/kg (ppm) | <1,000 | <1,000 | nm |
| trans-1,2-Dichloroethene | mg/kg (ppm) | <100 | <100 | nm |
| 1,1-Dichloroethane | mg/kg (ppm) | <100 | <100 | nm |
| cis-1,2-Dichloroethene | mg/kg (ppm) | <100 | <100 | nm |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | <100 | <100 | nm |
| 1,1,1-Trichloroethane | mg/kg (ppm) | <100 | <100 | nm |
| Trichloroethene | mg/kg (ppm) | <40 | <40 | nm |
| Tetrachloroethene | mg/kg (ppm) | <50 | <50 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------------------|-----------------|-------------|----------------------|-----------------------|---------------------|----------------|
| Vinyl chloride | mg/kg (ppm) | 2.5 | 89 | 88 | 22-139 | 1 |
| Chloroethane | mg/kg (ppm) | 2.5 | 96 | 93 | 10-163 | 3 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | 96 | 95 | 47-128 | 1 |
| Methylene chloride | mg/kg (ppm) | 2.5 | 116 | 114 | 42-132 | 2 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 114 | 110 | 67-127 | 4 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | 109 | 107 | 68-115 | 2 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 111 | 108 | 72-113 | 3 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | 113 | 111 | 56-135 | 2 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | 110 | 108 | 62-131 | 2 |
| Trichloroethene | mg/kg (ppm) | 2.5 | 109 | 106 | 64-117 | 3 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | 104 | 102 | 72-114 | 2 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/15

Date Received: 04/14/15

Project: SOU_0914-001-12_20150414, F&BI 504241

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF PRODUCT SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|--------------|-----------------|-------------|----------------------|-----------------------|---------------------|----------------|
| Aroclor 1016 | mg/kg (ppm) | 100 | 105 | 110 | 60-151 | 5 |
| Aroclor 1260 | mg/kg (ppm) | 100 | 105 | 109 | 53-144 | 4 |

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. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. 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.

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.

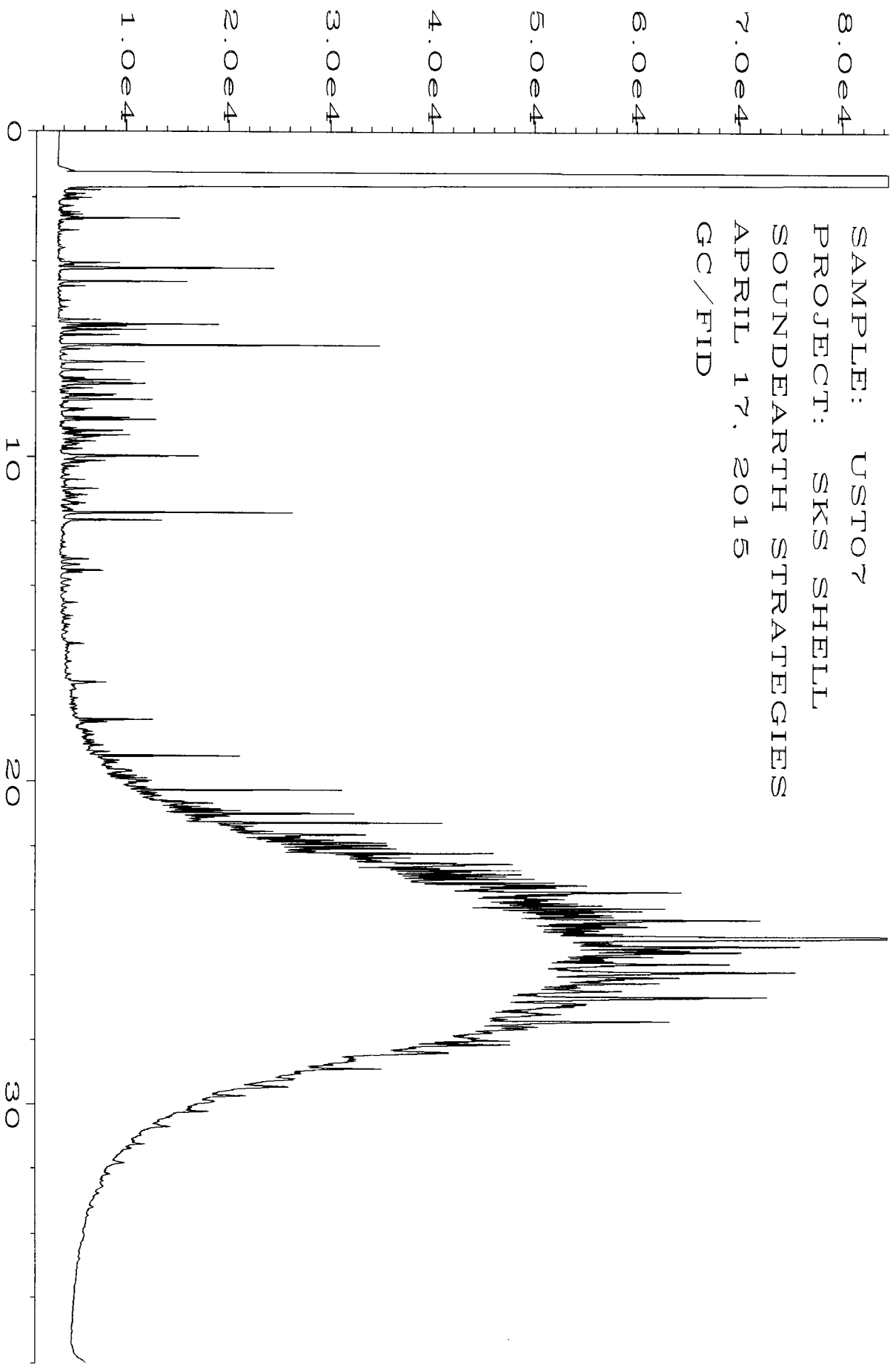
pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

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

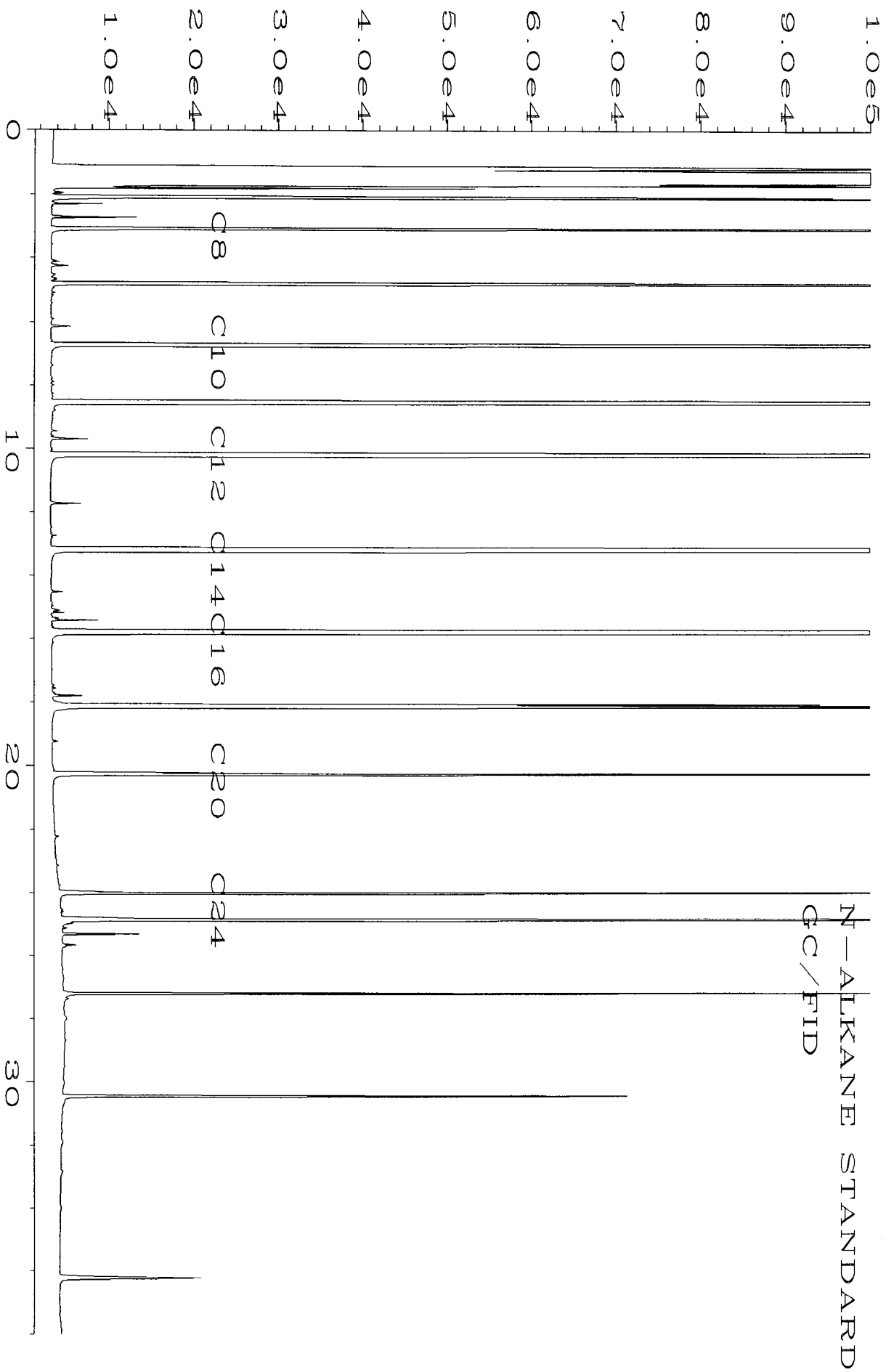
vo - The value reported fell outside the control limits established for this analyte.

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

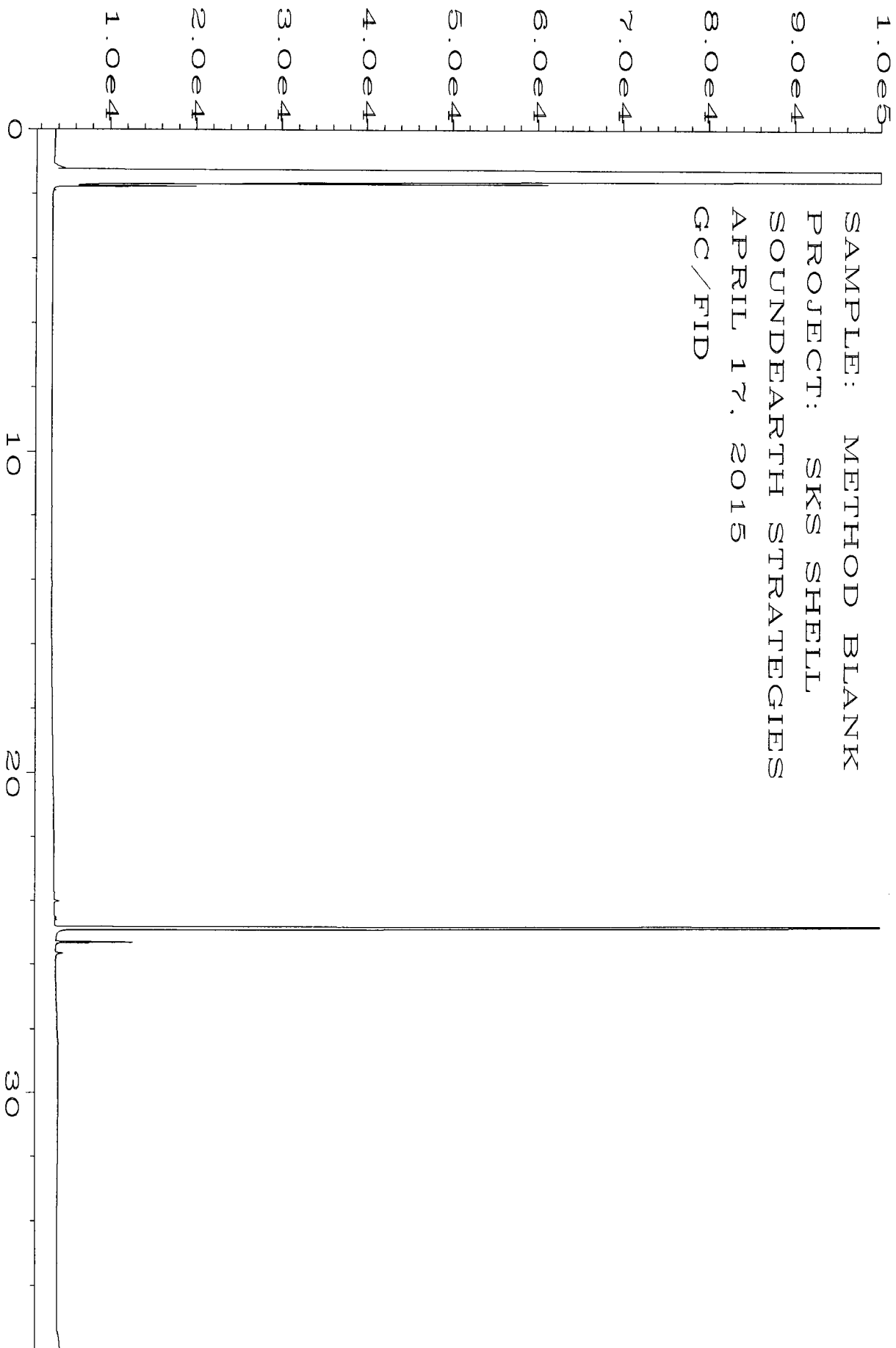
SAMPLE: USTO7
PROJECT: SKS SHELL
SOUNDEARTH STRATEGIES
APRIL 17, 2015
GC/FID



Sig. 1 in C:\HPCHEM\5\DATA\04-17-15\003F0401.D



Sig. 1 in C:\NPPCHEM\5\DATA\04-17-15\100F0201.D



Sig. 1 in C:\HPCHEM\5\DATA\04-17-15\002F0401.D



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Friedman & Bruya

Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 504241

Lab ID: 1504105

April 15, 2015

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 4/14/2015 for the analyses presented in the following report.

Flashpoint by EPA 1010/ASTM D93

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,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway
President



Date: 04/15/2015

CLIENT: Friedman & Bruya
Project: 504241
Lab Order: 1504105

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 1504105-001 | UST07 | 04/14/2015 10:30 AM | 04/14/2015 2:43 PM |

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

CLIENT: Friedman & Bruya

Project: 504241

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").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS). The LCS is processed with the samples 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 LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

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



Analytical Report

WO#: 1504105
Date Reported: 4/15/2015

Client: Friedman & Bruya
Project: 504241
Lab ID: 1504105-001
Client Sample ID: UST07

Collection Date: 4/14/2015 10:30:00 AM
Matrix: Product

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

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21812 Analyst: WC

| | | | | | | |
|------------|------|--|--|----|---|-----------------------|
| Flashpoint | >200 | | | °F | 1 | 4/15/2015 12:40:31 PM |
|------------|------|--|--|----|---|-----------------------|

Work Order: 1504105
CLIENT: Friedman & Bruya
Project: 504241

QC SUMMARY REPORT
Flashpoint by EPA 1010/ASTM D93

| Sample ID: LCS-R21812 | SampType: LCS | Units: °F | Prep Date: 4/15/2015 | RunNo: 21812 | | | | | | | |
|------------------------------|-------------------------|-----------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: R21812 | | Analysis Date: 4/15/2015 | SeqNo: 413486 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Flashpoint | 151 | | 152.0 | 0 | 99.2 | 65 | 135 | | | | |

Client Name: **FB**
 Logged by: **Erica Silva**

 Work Order Number: **1504105**
 Date Received: **4/14/2015 2:43:00 PM**

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
No cooler present (Matrix = Product)
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C Yes No NA
Please refer to item information
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. 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"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C | Condition |
|--------|---------|-----------|
| Sample | 11.4 | |

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

1504105

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

| | |
|-------------------------------------|----------------------|
| SUBCONTRACTOR <i>Fremont</i> | |
| PROJECT NAME/NO. <i>504241</i> | PO # <i>D-457</i> |
| REMARKS Please Email Results | |

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH *4/15/15*
 Rush charges authorized by:
MC

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Matrix | # of jars | Dioxins and Furans by 8290 | EPH | VPH | Nitrate | Sulfate | Alkalinity | Flashpoint | Notes |
|--------------|--------|----------------|--------------|----------------|-----------|----------------------------|-----|-----|---------|---------|------------|------------|-------|
| <i>UST07</i> | | <i>4/14/15</i> | <i>1030</i> | <i>product</i> | <i>1</i> | | | | | | | <i>X</i> | |
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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 |
|--------------------|----------------|--------------------|----------------|-------------|
| <i>[Signature]</i> | Michael Erdahl | Friedman & Bruya | <i>4/14/15</i> | <i>1:20</i> |
| <i>[Signature]</i> | Sophia Gage | Fremont Analytical | <i>4/14/15</i> | <i>1443</i> |
| | | | | |
| | | | | |

504241

SAMPLE CHA OF CUSTODY - ME 04-14-15

CO2

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr;
J. LOEFFLER
 Company SoundEarth Strategies, Inc.
 Address 2811 Fairview Avenue E, Suite 2000
 City, State, ZIP Seattle, Washington 98102
 Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. SKS Shell / 0914-001-12 PO # 0914-001-12

REMARKS

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 X RUSH 24hr TAT
 Rush charges authorized by:
Suzy

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Sample Location | Sample Depth | Lab ID | Date Sampled | Time Sampled | Matrix | # of Jars | ANALYSES REQUESTED | | | | | | | | | | Notes | | |
|------------------|-----------------|--------------|--------|--------------|--------------|----------|-----------|--------------------|----------|---------------|------------------|----------------|------------------------|---------------------|------|------------|-----|-----------------------------|-----|--|
| | | | | | | | | NWTPH-Dx | NWTPH-Gx | BTEX by 8021B | PAHs by 8267OSIM | cVOCs by 8260C | PCRA B Metals by 200.8 | PCBs by Method 8082 | HCID | FLASHPOINT | HFS | | | |
| UST07 | UST07 | - | 01 AB | 4/14/15 | 1030 | PRODUCER | 2 | | | | | | X | X | X | X | X | X | (X) | |
| _____ | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | (X) per RR 4/15/15 MG | | |
| | | | | | | | | | | | | | | | | | | [Signature] 4/14/15 | | |

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 |
|-------------------------------------|-------------------|---------|---------|------|
| Relinquished by: <u>[Signature]</u> | JONATHAN LOEFFLER | SES | 4/14/15 | 1235 |
| Received by: <u>[Signature]</u> | VINT | FBI | 4/14/15 | 1235 |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples received at 4 °C

Friedman & Bruya, Inc. #504310

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 24, 2015

Rob Roberts, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Roberts:

Included are the results from the testing of material submitted on April 17, 2015 from the SOU_0914-001-12_20150417, F&BI 504310 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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: Suzy Stumpf, Liz Forbes, Jessica Syr
SOU0424R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 17, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0914-001-12_20150417, F&BI 504310 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>SoundEarth Strategies</u> |
|----------------------|------------------------------|
| 504310 -01 | S-NSW01-C1-265 |
| 504310 -02 | UST07-BTM01-262 |
| 504310 -03 | UST07-SSW01-262 |
| 504310 -04 | UST07-ESW01-262 |
| 504310 -05 | UST07-WSW01-262 |
| 504310 -06 | UST07-NSW01-262 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/24/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504310

Date Extracted: 04/17/15

Date Analyzed: 04/17/15

**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 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|---|
| UST07-BTM01-262 504310-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |
| UST07-SSW01-262 504310-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |
| UST07-ESW01-262 504310-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| UST07-WSW01-262 504310-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |
| UST07-NSW01-262 504310-06 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 99 |
| Method Blank 05-0754 MB2 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 85 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/24/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504310

Date Extracted: 04/17/15

Date Analyzed: 04/17/15

**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 56-165) |
|-----------------------------------|--|---|---|
| UST07-BTM01-262 504310-02 | <50 | <250 | 100 |
| UST07-SSW01-262 504310-03 | <50 | <250 | 102 |
| UST07-ESW01-262 504310-04 | <50 | <250 | 102 |
| UST07-WSW01-262 504310-05 | <50 | <250 | 99 |
| UST07-NSW01-262 504310-06 | 72 x | 420 | 101 |
| Method Blank 05-804 MB | <50 | <250 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | UST07-BTM01-262 | Client: | SoundEarth Strategies |
| Date Received: | 04/17/15 | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | 504310-02 |
| Date Analyzed: | 04/21/15 | Data File: | 504310-02.102 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------------|--------------|
| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
| Holmium | 97 | 60 | 125 |

| | |
|----------|------------------------------|
| Analyte: | Concentration mg/kg (ppm) |
| Lead | 3.91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | UST07-SSW01-262 | Client: | SoundEarth Strategies |
| Date Received: | 04/17/15 | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | 504310-03 |
| Date Analyzed: | 04/21/15 | Data File: | 504310-03.103 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------------|--------------|
| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
| Holmium | 96 | 60 | 125 |

| | |
|----------|------------------------------|
| Analyte: | Concentration mg/kg (ppm) |
| Lead | 2.68 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | UST07-ESW01-262 | Client: | SoundEarth Strategies |
| Date Received: | 04/17/15 | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | 504310-04 |
| Date Analyzed: | 04/21/15 | Data File: | 504310-04.105 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------------|--------------|
| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
| Holmium | 97 | 60 | 125 |

| | |
|----------|------------------------------|
| Analyte: | Concentration mg/kg (ppm) |
| Lead | 3.24 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | UST07-WSW01-262 | Client: | SoundEarth Strategies |
| Date Received: | 04/17/15 | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | 504310-05 |
| Date Analyzed: | 04/21/15 | Data File: | 504310-05.106 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------------|--------------|
| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
| Holmium | 96 | 60 | 125 |

| | |
|----------|------------------------------|
| Analyte: | Concentration mg/kg (ppm) |
| Lead | 4.14 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | UST07-NSW01-262 | Client: | SoundEarth Strategies |
| Date Received: | 04/17/15 | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | 504310-06 |
| Date Analyzed: | 04/21/15 | Data File: | 504310-06.107 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------------|--------------|
| Internal Standard: | % Recovery: | Lower Limit: | Upper Limit: |
| Holmium | 97 | 60 | 125 |

| | |
|----------|------------------------------|
| Analyte: | Concentration mg/kg (ppm) |
| Lead | 29.9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

| | | | |
|-----------------|------------------------|-------------|--------------------------|
| Client ID: | Method Blank | Client: | SoundEarth Strategies |
| Date Received: | NA | Project: | SOU_0914-001-12_20150417 |
| Date Extracted: | 04/20/15 | Lab ID: | I5-229 mb |
| Date Analyzed: | 04/21/15 | Data File: | I5-229 mb.098 |
| Matrix: | Soil | Instrument: | ICPMS1 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | SP |

| | | | |
|--------------------|-------------|--------|--------|
| Internal Standard: | % Recovery: | Lower | Upper |
| Holmium | 98 | Limit: | Limit: |
| | | 60 | 125 |

| | |
|----------|---------------|
| Analyte: | Concentration |
| | mg/kg (ppm) |
| Lead | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/24/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504310

**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: 504291-01 (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) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|-----------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 0.5 | 80 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 90 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 89 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 87 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/24/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504310

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL
SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 504310-02 (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 | <50 | 100 | 102 | 63-146 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 100 | 79-144 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/24/15

Date Received: 04/17/15

Project: SOU_0914-001-12_20150417, F&BI 504310

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 504331-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Lead | mg/kg (ppm) | 50 | <1 | 101 | 101 | 59-148 | 0 |

Laboratory Code: Laboratory Control Sample

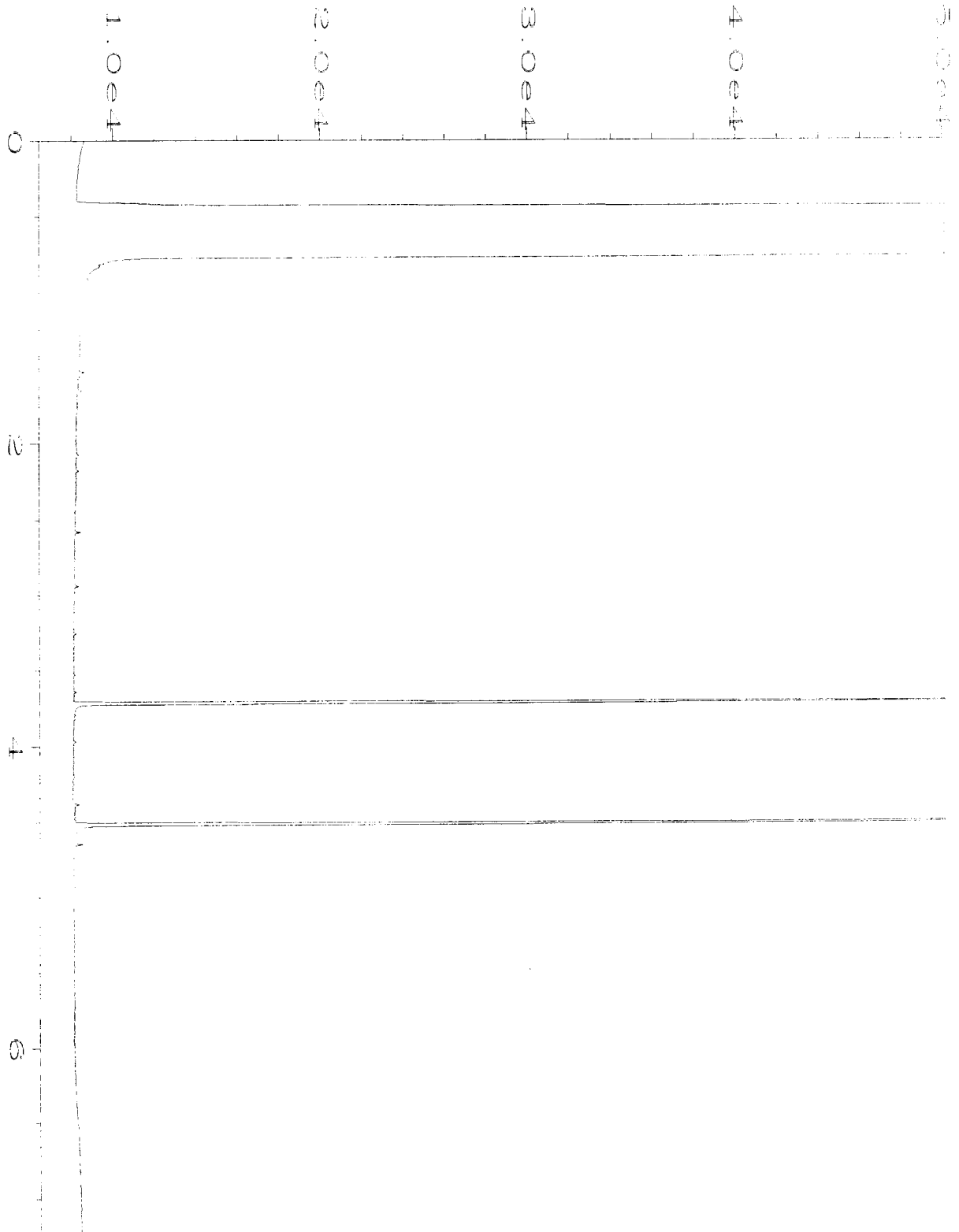
| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---------|-----------------|-------------|----------------------|---------------------|
| Lead | mg/kg (ppm) | 50 | 102 | 80-120 |

FRIEDMAN & BRUYA, INC.

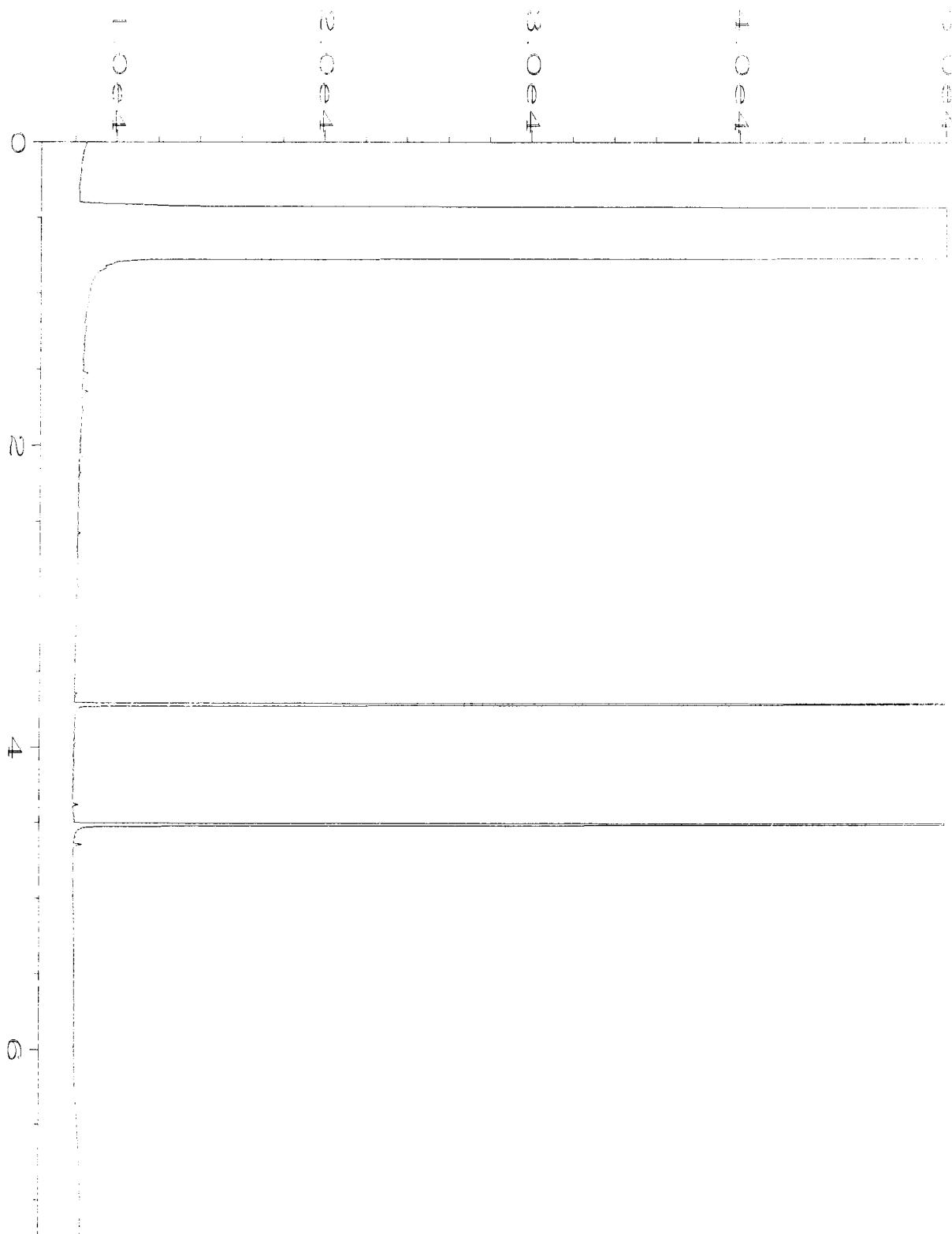
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

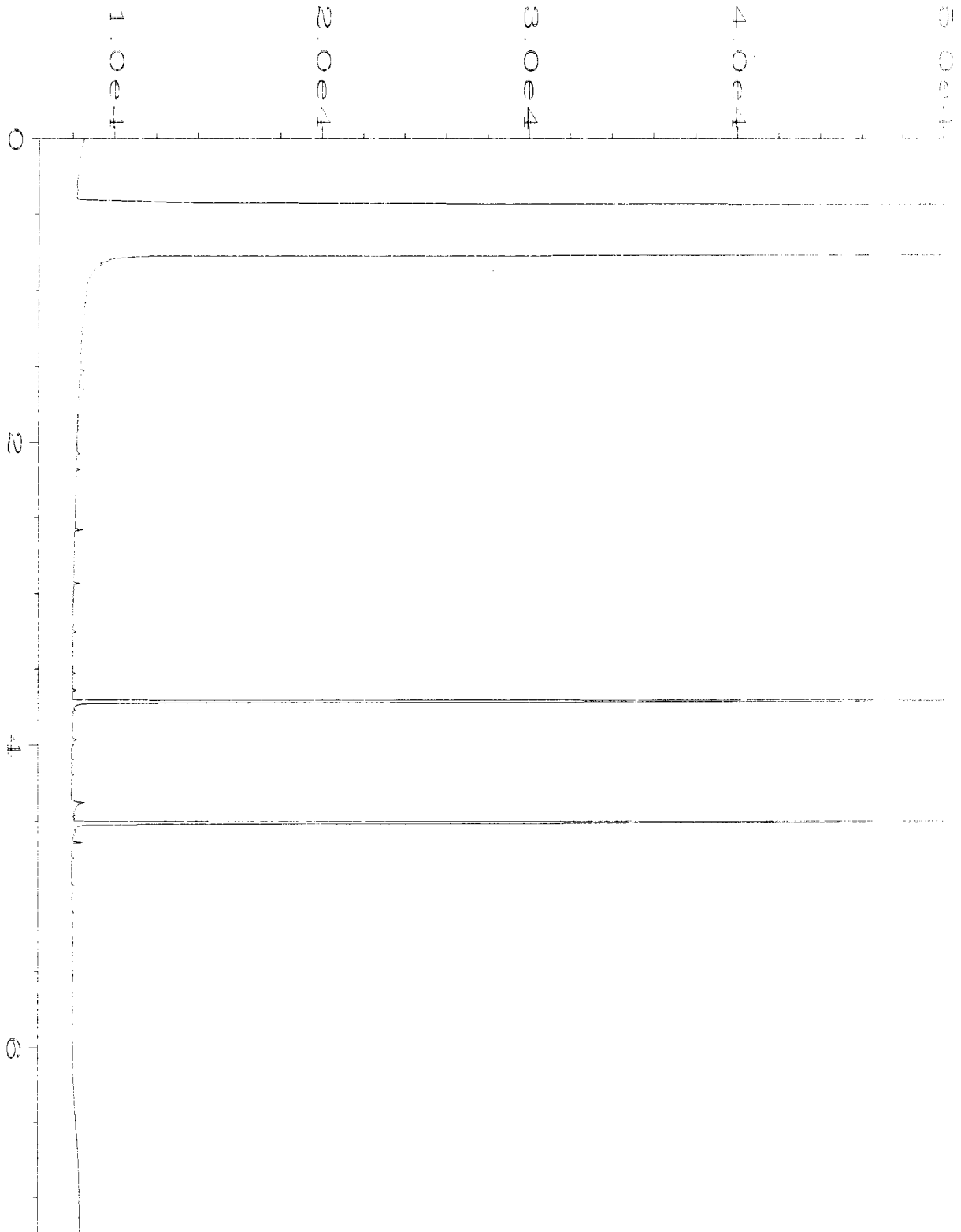
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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.
- 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.



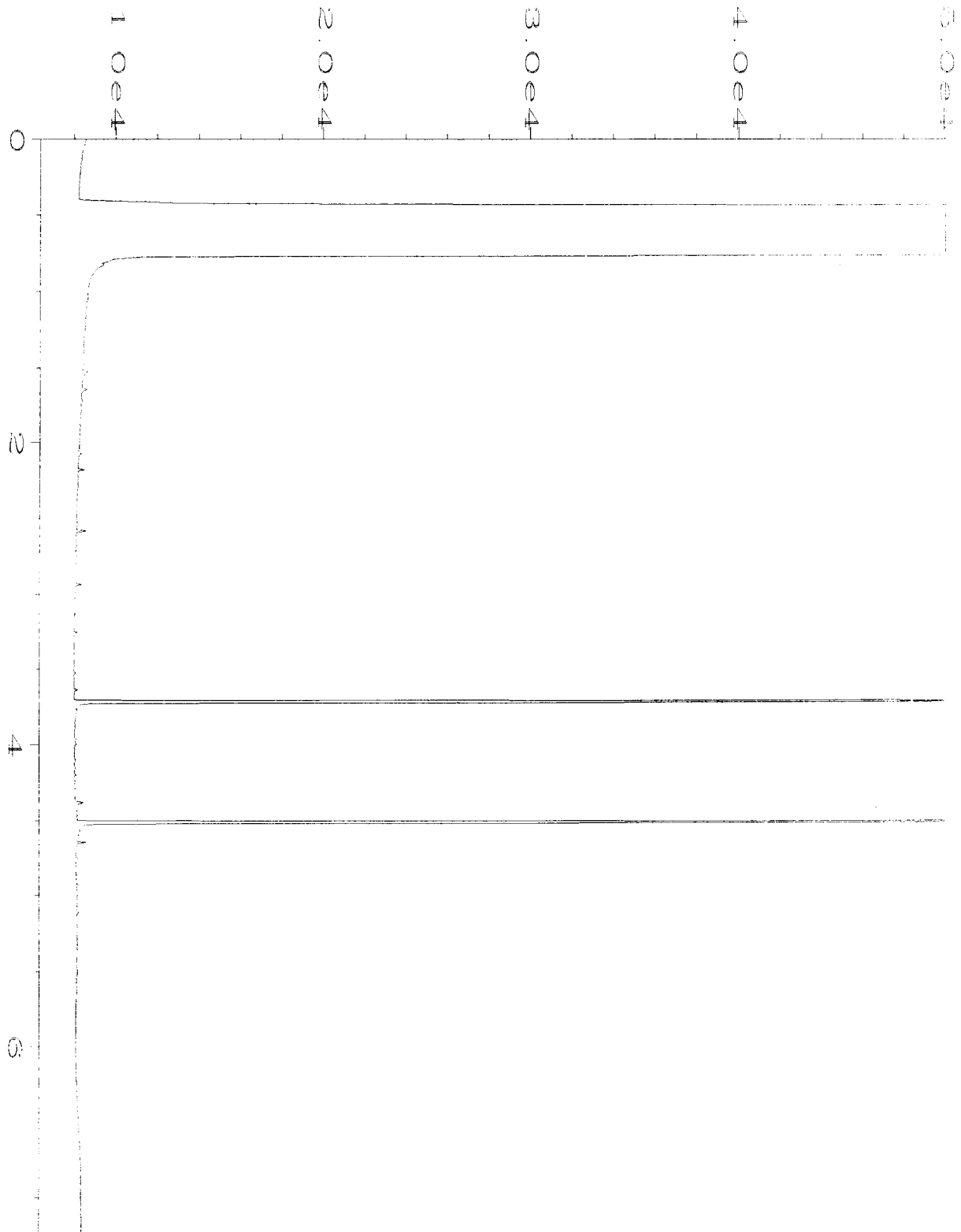
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\027F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 27 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504310-02 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 04:30 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:47 AM | | |



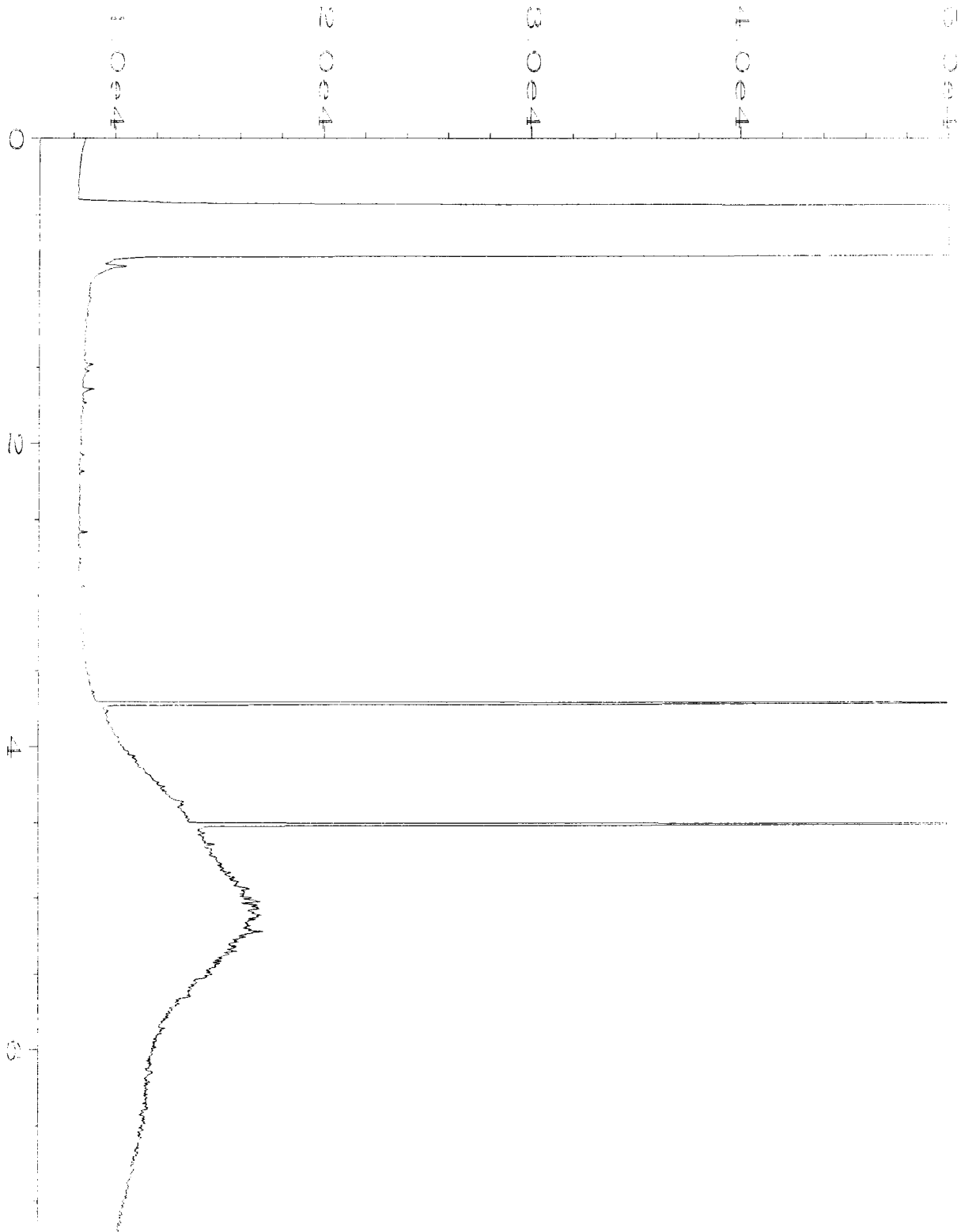
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\028F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 28 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504310-03 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 04:41 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:47 AM | | |



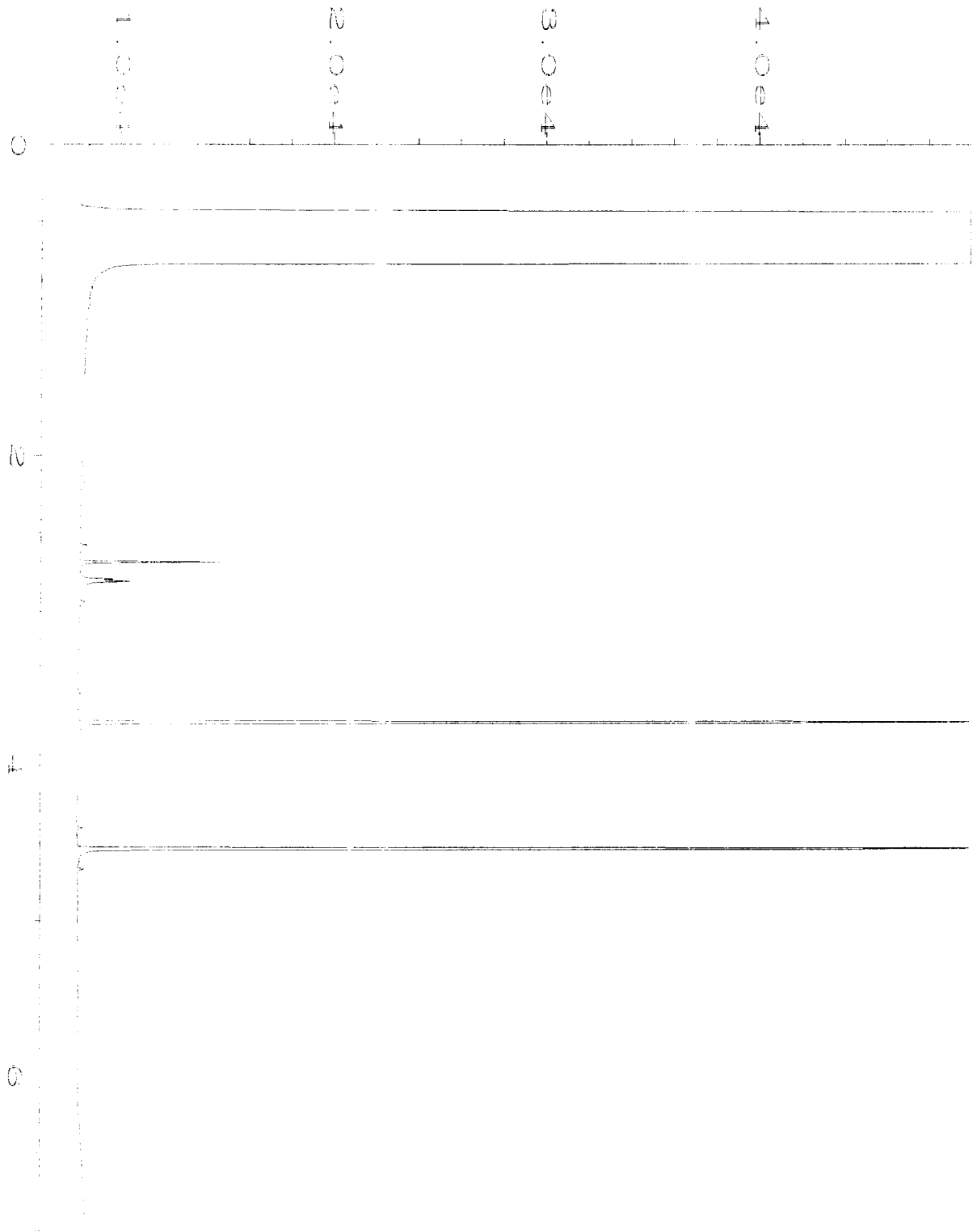
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\029F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 29 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504310-04 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 04:52 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:47 AM | | |



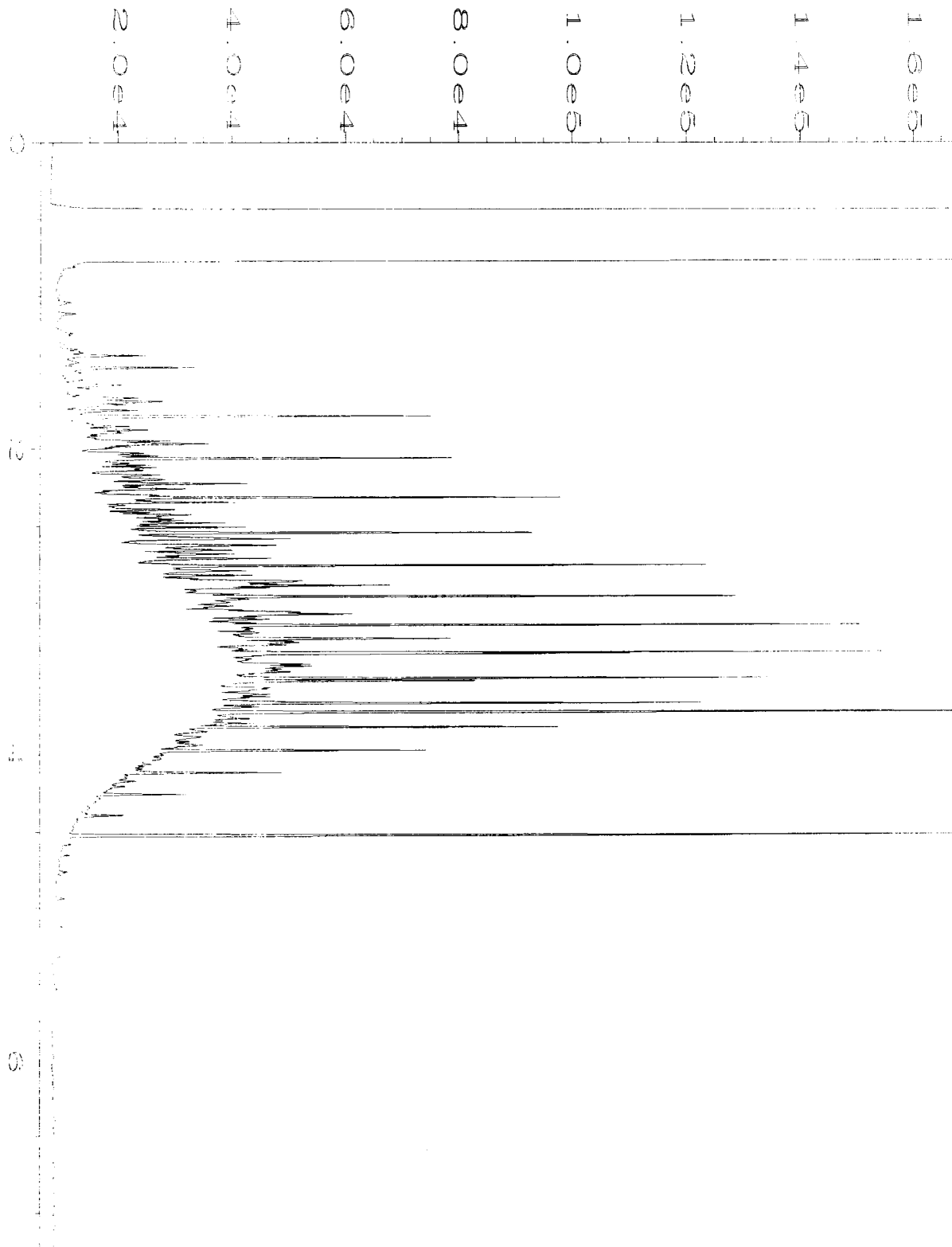
| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\030F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 30 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504310-05 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 05:03 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:48 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\031F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 31 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 504310-06 | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 05:14 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:48 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\023F0501.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 23 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 05-804 mb | Sequence Line | : 5 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 03:48 PM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:48 AM | | |



| | | | |
|--------------------|--|--------------------|----------|
| Data File Name | : C:\HPCHEM\1\DATA\04-17-15\003F0201.D | Page Number | : 1 |
| Operator | : mwdl | Vial Number | : 3 |
| Instrument | : GC1 | Injection Number | : 1 |
| Sample Name | : 500 Dx 44-94C | Sequence Line | : 2 |
| Run Time Bar Code: | | Instrument Method: | DX.MTH |
| Acquired on | : 17 Apr 15 08:56 AM | Analysis Method | : DX.MTH |
| Report Created on: | 20 Apr 15 08:48 AM | | |

504310

SAMPLE CHA OF CUSTODY ME

4/17/15 DOB/USI

Send Report to R. Roberts; S. Stumpf; E. Forbes; J. Cyr
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue E, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. SKS SHELL PROPERTY/ 0914-001-12
PO # 0914-001-12
REMARKS * Freeze and hold one 4oz. jar for forensic analysis.

Page # of
TURNAROUND TIME
Standard (2 Weeks)
RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Sample Location, Sample Depth, Lab ID, Date Sampled, Time Sampled, Matrix, # of Jars, ANALYSES REQUESTED (NTPH-Dx, NTPH-Gx, BTEX, PAHs, VOCs, Metals, PCBs, LEAD), Notes. Includes handwritten entries for samples S-NSW01-CI-265 and UST07-BTMCI-262 through UST07-NSW01-262.

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS\COC\COC.DOC

Table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Contains transfer records for Jonathan Loeffler, Pat Mahony, and Hong Nguyen.