

## **Construction Completion Report**

Dakota Creek Industries Site  
Anacortes, Washington  
*for*

**Washington State Department of Ecology**  
*on Behalf of Port of Anacortes*

December 7, 2023



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Fourth & Blanchard Building

2101 4<sup>th</sup> Avenue, Suite 950

Seattle, Washington, 98121

206.728.2674

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## Dakota Creek Industries Site Anacortes, Washington

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December 7, 2023

Prepared for:

Washington State Department of Ecology  
PO Box 47600  
Olympia, Washington 98504-7600

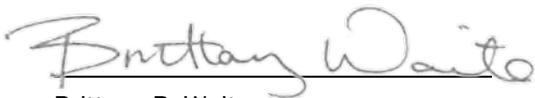
Attention: David Horne

On Behalf of:

Port of Anacortes  
100 Commercial Avenue  
Anacortes, Washington 98221

Prepared by:

GeoEngineers, Inc.  
Fourth & Blanchard Building  
2101 4<sup>th</sup> Avenue, Suite 950  
Seattle, Washington 98121  
206.728.2674



Brittany R. Waite  
Staff Environmental Engineer



Abhijit R. Joshi, PE  
Senior Environmental Engineer



John M. Herzog, LG, PhD  
Principal Environmental Geologist

BRW:ARJ:JMH:ch

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## ABBREVIATIONS AND ACRONYMS

ASTs	above ground storage tanks
BETX	benzene, ethylbenzene, toluene and xylene
bgs	below ground surface
BMP	Best Management Practice
CAP	Cleanup Action Plan
CGA	Columbia Geotechnical Associates
City	City of Anacortes
COC	contaminant of concern
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSBC	crushed surfacing base course
CSTC	crushed surfacing top course
DCG	Davido Consulting Group, Inc.
DCI	Dakota Creek Industries
DNS	Determination of Non-Significance
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
EIM	Environmental Information Management
EPA	United States Environmental Protection Agency
DAHP	Washington State Department of Archeological and Historical Preservation
mg/kg	milligrams per kilogram
MLLW	Mean Lower Low Water
MTCA	Model Toxics Control Act
OHW	Ordinary High Water
OnSite	OnSite Environmental Inc.
OSHA	Occupational Safety and Health Act
PAH	polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl

Port	Port of Anacortes
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
ROW	rights-of-way
RI/FS	Remedial Investigation/Feasibility Study
SEPA	State Environmental Policy Act
Site	Dakota Creek Industries Cleanup Site
TCLP	toxicity characteristics leaching procedure
TESC	Temporary Erosion and Sediment Control
UULC	Utilities Underground Location Center
WAC	Washington Administrative Code
WISHA	Washington Industrial Safety and Health Act
WSDOT	Washington State Department of Transportation

## 1.0 INTRODUCTION

This Construction Completion Report documents the cleanup action construction activities completed by the Port of Anacortes (Port) at the Dakota Creek Industries Cleanup Site (Site). The Site is situated along the shoreline of Guemes Channel at 115 Q Avenue (north of 3<sup>rd</sup> Street between Commercial Avenue and R Avenue) in Anacortes, Washington (Figure 1) and is part of the Washington State Department of Ecology (Ecology) Puget Sound Initiative and regional cleanup efforts on Fidalgo Island. The Site is listed in Ecology's Integrated Site Information System under Facility Site Identification No. 2670 and Cleanup Site Identification No. 5174. The property on which the Site is located is owned by the Port and is currently leased to Dakota Creek Industries (DCI) who uses the property for shipbuilding, maintenance and repair. The DCI lease area and parcel boundaries within and adjacent to the DCI lease area are shown in Figure 2.

The cleanup activities were completed to address Site contamination pursuant to Ecology's Cleanup Action Plan (CAP; Ecology 2022) for the Site and the Consent Decree between the Port and Ecology. As described in the CAP, the Ecology-selected cleanup action for the Site contains the following components:

- Removal of arsenic and nickel contaminated soil from the southeast portion of the DCI lease area;
- Use of existing engineering controls such as concrete and asphalt surfaces to isolate the remaining soil contamination at the Site from human and ecological receptors;
- Long-term monitoring of groundwater to confirm compliance with the cleanup standard at the conditional point of compliance and assess natural attenuation performance; and
- Implementation of institutional controls for long term protection of the remedial actions.

An overview of Ecology-selected cleanup action is presented in Figure 3.

Cleanup construction was completed by the Port between June and August 2023 to remove contaminated soil from the southeast portion of the DCI lease area. Prior to performing soil removal activities, an Engineering Design Report (EDR; GeoEngineers 2022a) was prepared by the Port to meet the requirements of the Consent Decree and to describe the components of the cleanup action. Contaminated soil removal was completed in accordance with the requirements established in the Ecology-approved EDR. In general, the contaminated soil removal involved remedial excavation and off-site disposal of contaminated soil, backfilling of the excavated area, and restoration of the impacted surfaces. Best Management Practices (BMPs) were implemented to protect the community, workers and the environment during construction.

### 1.1. Purpose and Report Organization

The purpose of this report is to document the contaminated soil removal activities completed on the Site. This report is organized into the following sections:

- Section 1.0 introduces the document with a brief description of the Site, purpose and organization of the report.
- Section 2.0 describes the Site location, future, current and historical land use, and nature and extent of contamination.
- Section 3.0 presents the cleanup action objectives and requirements applicable to soil removal.



- Section 4.0 describes the cleanup action construction activities completed.
- Section 5.0 summarizes post-construction tasks that will be completed.
- Section 6.0 describes the limitations of the use of this report.
- Section 7.0 lists the references used in preparing this report.

Multiple appendices are provided with detailed information supporting the report sections described above.

## **2.0 BACKGROUND INFORMATION**

### **2.1. Site Location and Description**

The Site is comprised of multiple property parcels (P32866, P32867, P32898, P32903, P32904, P32905, P32906, P32907, P54924, P55030, P55031, P56539) owned by the Port. The property is leased to DCI. Figure 2 shows the location of the parcels and the boundary of the DCI lease area.

The Site includes a Marine Area and an Upland Area. The Marine Area consists of parts offshore of Ordinary High Water (OHW) and the Upland Area consists of parts landward of OHW. In general, the Marine Area is maintained with a navigation depth of approximately -35 feet Mean Lower Low Water (MLLW) to support shipyard operations. The Upland Area is relatively flat with a ground surface elevation of approximately 15 feet MLLW. Most of the upland area is paved with asphalt or concrete. The limited unpaved parts of the Upland Area consist of a crushed gravel working surface that is maintained for fabrication layout and heavy equipment operations. Public access to the DCI lease area is restricted with fencing, signage and security guards. The Marine and Upland Areas are generally separated by bulkheads, as shown in Figure 2.

### **2.2. Historical Operations and Site Use**

The Site has been used for industrial purposes since approximately 1879. Historically, various above ground storage tanks (ASTs), a rail spur, and associated buildings including machine shops, welding shops and equipment sheds were located at the Site to support industrial operations as shown in Figure 4. Historical records show that a bulk oil storage and distribution facility with at least six ASTs was in operation in the central upland portion of the Site and that were used for bulk oil storage and distribution. The Port acquired portions of the Site from the mid-1940s to the mid-1970s. By the mid-1970s, the structures associated with the bulk oil storage and distribution facility had been removed.

The southwest portion of the Site was historically used for residential purposes from the early 1900s until the late 1960s. In about 1976, DCI began to lease the Site from the Port and has continued to operate the shipyard facility since that time.

Prior to 2008, multiple piers and docks and two marine railways used to lift vessels out of the water were located in the Marine Area (Figure 4). The west marine railway, located between the East Pier and Pier 1, was removed in the early 1990s. The east marine railway located between the East Pier and Pier 2 was removed in 2008 as part of the Port's Project Pier 1 redevelopment. The Project Pier 1 redevelopment included the removal of L and East Docks, the east marine railway and associated marine structures, dredging to the current navigational depth of the Marine Area, installation of 670 linear feet of sheet pile bulkhead (open cell bulkhead) to reconfigure the southern shoreline, placement of 250 linear feet of riprap along the Marine Area's east boundary and construction of the Central Pier. An interim action was

completed in 2008 in advance of Project Pier 1 to remove 170,000 cubic yards of contaminated sediments that were present in the Marine Area.

### **2.3. Current Conditions and Use**

Many of the historical structures and facilities noted in the previous section have been removed from the Site. The DCI lease area currently has three warehouses (No. 4, 9 and 10), a sand shed, shop, paint storage shed, stormwater treatment facility and guard station at the main entrance located at the interception of Q Avenue and 3<sup>rd</sup> Street as shown in Figure 5. In addition, multiple modular shelters are used at the Site for fabrication. The location of these modular shelters varies and is dependent on DCI operations.

In the Upland Area, the ground surface is mostly paved with asphalt or concrete. In limited areas, the ground surface consists of a crushed gravel working surface that is maintained for fabrication layout and equipment storage.

There is little or no stormwater run-on to the Site, and precipitation falling onto the DCI lease area is captured by a network of stormwater drains and is treated by DCI prior to being discharged to the Guemes Channel or the City of Anacortes (City) sanitary sewer under permits. In the limited areas that are unpaved, stormwater infiltrates into the ground.

DCI currently has connections for power, water, sewer and communications which extend into the adjacent rights-of-way (ROW), including Commercial Street and 3<sup>rd</sup> Avenue. DCI also maintains utilities including compressed air and electrical to support vessel construction and marine maintenance operations.

### **2.4. Future Land Use**

At present, the property parcels containing the Site and adjacent properties are zoned by the City for industrial use (Manufacturing/Shipping) and are characterized by marine shipping, warehousing, bulk material storage, transportation, and other industrial uses. Although the specific future use of the Site is dependent on the operations of the Port's lessees, it is likely to continue to be for industrial purposes including shipbuilding, ship repairs and other maritime-related industrial business for the foreseeable future. Currently, the Port maintains a lease with DCI that extends through 2055.

### **2.5. Nature and Extent of Contamination**

As described in the CAP, the contaminated media present at the Site include soil and groundwater. The CAP also documents that no sediment contamination remains at the Site as a result of 2008 interim action and therefore, no further action is required for sediment. A detailed description of the nature and extent of contamination at the Site is presented in the Remedial Investigation/Feasibility Study (RI/FS) Report (Final RI/FS Report; GeoEngineers 2022b) and CAP (GeoEngineers 2022a).

#### **2.5.1. Soil Conditions**

Site soils consist of multiple layers of fill overlying native marine sediment and glacial deposits. Historical fill placed in the 1960s is comprised of layers of sand, silty sand and silt with variable gravel content ranging from approximately 2- to 16-foot-thick. Contained in the historical fill deposits are occasional debris including concrete asphalt, brick and wood fragments. Historical fill deposits generally increase in thickness north of 3<sup>rd</sup> Street. Underlying the fill materials across the Site are native beach sands overlying glacial deposits. The beach sand deposits are typically poorly sorted, loose in nature and vary in thickness from

2 to 4 feet. Glacial deposits consist of a medium dense glaciomarine drift with varying amounts of silt and sand.

Based on the findings from previous environmental investigations, the RI/FS and CAP identified the following contaminants of concern (COCs) in soil at the Site:

- Arsenic;
- Nickel; and
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs).

The soil subject to the cleanup action contains arsenic and nickel above cleanup/remediation levels (Section 3.2.1). The RI/FS did not identify cPAHs at levels above cleanup/remediation levels in the soil subject to cleanup action removal.

### **3.0 CLEANUP OBJECTIVE AND REQUIREMENTS APPLICABLE TO THE CLEANUP ACTION SOIL REMOVAL**

This section presents objective and cleanup requirements applicable to the cleanup action soil removal activities.

#### **3.1. Objective**

The objective of the cleanup action soil removal was to excavate soil contaminated with arsenic and nickel that exceeds the established cleanup/remediation levels (Section 3.2.1) and dispose of the contaminated material in an offsite, Ecology-approved landfill. The final limit of the soil removal area is shown in Figure 6.

#### **3.2. Cleanup Requirements**

As detailed in the EDR (GeoEngineers 2022a), the cleanup requirements applicable to soil removal include cleanup/remediation levels, points of compliance and applicable regulatory requirements.

##### **3.2.1. Soil Cleanup and Remediation Levels**

Ecology-approved soil cleanup and remediation levels applicable to soil removal are identified in Table 1 below.

**TABLE 1. SOIL CLEANUP AND REMEDIATION LEVELS APPLICABLE TO SOIL REMOVAL**

<b>COC</b>	<b>Cleanup Level</b>	<b>Remediation Level</b>	<b>Unit</b>
Arsenic	20	60	milligrams per kilogram (mg/kg)
Nickel	48	144	milligrams per kilogram (mg/kg)

The cleanup levels were used to guide the removal of soil from the base of the excavation. The vertical limits of soil removal were determined by the excavation base verification samples that met the arsenic and nickel cleanup levels.

The remediation levels were used to guide the removal of soil from the sidewalls of the excavation. The horizontal limits of soil removal were determined by excavation sidewall verification samples that met the arsenic and nickel remediation levels.

### **3.2.2. Soil Points of Compliance**

Under Model Toxics Control Act (MTCA), the standard point of compliance for the soil cleanup levels based upon human health via direct contact is throughout the Site from the ground surface to 15 feet below ground surface (bgs) per Washington Administrative Code (WAC) 173-340-740(6)(d).

### **3.2.3. Applicable Regulatory Requirements**

Because the Site cleanup action is being implemented pursuant to the MTCA under the terms of a Consent Decree, the cleanup action meets the permit exemption provisions of MTCA (WAC 173-340-710[9][a]), obviating the need to follow the procedural requirements of most State and local laws that would otherwise apply to the action. However, the cleanup action must comply with the substantive requirements of these laws.

To meet the substantive requirements of the State laws, the Port completed a State Environmental Policy Act (SEPA) checklist and a SEPA determination for the project. Ecology reviewed the SEPA checklist and following public review, the Port, as a SEPA lead agency, issued a Determination of Non-Significance (DNS). The SEPA checklist and DNS are included in Appendix A.

Construction plans and specifications developed for the soil removal activities were submitted to the City of Anacortes to confirm compliance with the applicable substantive requirements for City permits. The City completed a review of the materials and provided a design review letter to the Port on January 17, 2023 (Appendix A) identifying their substantive requirements pertaining to the shoreline master program, noise ordinance, stormwater requirements and SEPA checklist. The City was satisfied with the construction plans and specifications and did not identify a need to obtain any of the City permits, noting that the soil removal area was located within Port property and not expected to expand into public rights-of-way. The City's substantive requirements identified in their design review letter were incorporated into project plans and specifications by the Port and the soil removal activities were completed in accordance with City's requirements.

Additionally, soil removal activities were completed in accordance with the following regulatory requirements.

- Contaminated soil removed was managed, handled, transported and disposed of in accordance with the applicable regulatory requirements and requirements of the permitted landfill facility.
- To meet the requirements of the Washington State Department of Archaeology and Historic Preservation (DAHP) an Inadvertent Discovery Plan was prepared and included in the EDR. To meet DAHP's requirements, an archeological monitor was present during soil removal activities to monitor for cultural resources.
- Construction activities were performed in accordance with the requirements of the Washington Industrial Safety and Health Act (WISHA; RCW 49.17) and the federal Occupational Safety and Health Act (OSHA; 29 CFR 1910, 1926).

## 4.0 SOIL REMOVAL CONSTRUCTION ACTIVITIES

The soil removal construction work was completed between June and August 2023 and included:

- Implementing temporary controls including Site security, traffic, erosion, dust and noise.
- Protecting in-place utilities to facilitate remedial excavation activities.
- Decommissioning an existing monitoring well (MW-7) that was located near the footprint of remedial excavation.
- Excavating and transporting contaminated material to an off-site permitted disposal facility.
- Inspection for cultural resources during excavation.
- Performing surveys to document the limits of excavation.
- Collecting and analyzing soil samples from the horizontal and vertical limits of the soil excavation to confirm cleanup or remediation levels were met.
- Placing geotextile as a visual marker at the limits of soil excavation prior to backfilling.
- Backfilling the excavation with clean imported fill material and performing compaction testing.
- Restoring Site surfaces with asphalt and concrete that were disturbed due to construction activities.
- Performing post-construction surveys to document as-built conditions.

The following sections present the project team and describe the soil removal activities that were completed.

### 4.1. Project Team

The soil removal construction was contracted and administered by the Port under regulatory oversight by Ecology. Key members of the project team are listed in the following table.

#### KEY PROJECT TEAM MEMBERS

Agency/Company	Contact and Project Role
<b>Owner</b>	
Port of Anacortes	Brad Tesch, Project Manager
	Becky Darden, Contracts Administrator
	Kevin Anderson, Environmental Specialist
<b>Regulatory Agency</b>	
Department of Ecology	David C. Horne, Site Manager
<b>Port of Anacortes Consultants</b>	
GeoEngineers, Inc. (Environmental Engineer)	John Herzog, LG, PhD, Project Manager
	Abhijit Joshi, PE, Project Engineer
	Nathan Solomon, Field Representative
Davido Consulting Group, Inc. (DCG; Civil Engineer)	Danny Ochoa, PE, Project Manager
	Selina Stanley, PE, Project Engineer

Agency/Company	Contact and Project Role
Columbia Geotechnical Associates, Inc. (CGA; Archeological Field Monitoring)	Brett Lenz, Project Archeologist
<b>Construction General Contractor</b>	
Clearcreek Contractors, a division of Holt Services, Inc.	Darren Ness, Project Manager
	Paul Curnett, Construction Manager
	Jake Shalan, Site Superintendent
<b>Key Subcontractors to General Contractor</b>	
Pacific Surveying & Engineering, Inc. (Topographic Surveyor)	Barry Unema, Manager
GeoTest (Backfill Compaction Testing Service)	Benjamin Fox, Project Manager
Quilceda Paving (Asphalt Paving)	Tanner Wenger, Project Manager
Republic Services (Landfill Operator)	Matt Calantas, Special Waste Executive
Miles Sands & Gravel (Import Material Quarry Operator)	Ryan Lemos, Sales Manager

## 4.2. Temporary Site Controls

The following sections describe temporary site controls that were implemented during the cleanup action construction.

### 4.2.1. Site Access, Security and Traffic Control

Site access, security and traffic controls were installed prior to the start of the construction activities. A combination of existing and temporary fencing was used around the perimeter of the excavation area to secure the area and limit access of general public to the work areas. A gated access point was established along 3<sup>rd</sup> Street for construction personnel, vehicles and equipment.

Signage was positioned along 3<sup>rd</sup> Street, Q Avenue and R Avenue to notify vehicular and pedestrian traffic of construction activities. The material export and import haul route to and from the Site within the City of Anacortes utilized 3<sup>rd</sup> Street, Q Avenue and R Avenue.

### 4.2.2. Temporary Erosion and Sediment Control (TESC)

BMPs consistent with Ecology's *Stormwater Management Manual for Western Washington (Ecology 2019)* were used to control erosion and stormwater pollution during construction. The BMPs implemented during the cleanup action construction included:

- Use of filter socks within catch basins adjacent to the Site to prevent sediment from entering the stormwater system;
- Straw wattles as an excavation and work area perimeter stormwater BMP;
- Using existing gravel and paved surfaces for entry/exist and movement of construction vehicle and trucks and trailers to minimize erosion, sediment tracking and generation of dust; and
- Securing and covering stockpiled soil with plastic sheeting to protect from wind, rain, and other disturbances, as conditions warranted.

Additionally, construction work was performed during the dry months of the year (June through August) to minimize generation of stormwater. Temporary erosion and sediment control measures were maintained throughout the duration of the project and inspected by the general contractor and the Port's field representative on a regular basis to ensure their effectiveness.

#### **4.2.3. Dust and Noise Control**

Engineering controls, including wetting ground surfaces and covering exposed soil stockpiles, as necessary, were used during construction to meet regulatory substantive requirements for the off-site transport of airborne particulates/fugitive dust.

Construction noise generated by a variety of construction equipment, including truck engines, generators, other small engines and earthmoving equipment was generally limited to daylight hours between 7:00 a.m. and 7:00 p.m., Monday through Friday. No exceptions or request for variances to the City's allowable work hours were made during construction and no complaints were received.

#### **4.2.4. Spill Prevention**

Contingency measures were utilized to reduce the risk of spills, including the release of fuel, hydraulic fluid, and contaminated wastewater. The refueling or machinery maintenance operations were conducted in a manner to prevent releases to Site soils. Spill containment/cleanup kit(s) including gloves, a large container, absorbents, booms and plastic bags were maintained on Site by the contractor during construction. These containment materials were used during refueling or maintenance/servicing of equipment hydraulics to ensure that any accidental spill is contained. Additionally, equipment used during the project were inspected regularly for drips or leaks. No spills from construction equipment were noted during construction.

#### **4.3. Utility Locate**

Prior to the start of construction, utility locates were completed at the Site. The Washington State Utilities Underground Location Center (UULC) and a private utility locating service were contacted to complete the utility locates.

#### **4.4. Monitoring Well Decommissioning**

As part of the cleanup construction, Monitoring Well MW-7 near the remedial excavation area (Figure 3) was decommissioned by a Washington-licensed driller in accordance with Ecology requirements (WAC 173-160-460). The monitoring well decommission report for MW-7 is presented in Appendix B.

#### **4.5. Waste Characterization**

For the purposes of obtaining landfill disposal approval, the chemical analytical data presented in the RI/FS Report (GeoEngineers 2022b) was submitted to a Resource Conservation and Recovery Act (RCRA) Subtitle D landfill - Roosevelt Regional Landfill, which is located in Roosevelt, Washington, and is owned/operated by Republic Services. Roosevelt Regional Landfill was selected by Clearcreek Contractors as their preferred landfill. Upon review of the project data, Republic Services requested the following additional analyses:

- RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver); and
- Benzene

A GeoEngineers field personnel collected three samples (WCS-1, WCS-2 and WCS-3) on June 26, 2023, of the contaminated soil planned for removal. Clearcreek Contractors helped assist in the sample collection by performing test pits at the target sampling locations. The soil samples that were collected were delivered to an Ecology-accredited laboratory, OnSite Environmental, Inc. (OnSite), for analysis in accordance with the soil sampling and analysis procedures presented in the EDR. Based on the soil analysis results, a follow-up toxicity characteristics leaching procedure (TCLP) lead testing was performed on samples WCS-2 and WCS-3 to meet the requirements of the landfill.

The supplemental analytical results of WCS-1, WCS-2 and WCS-3 were provided to Republic Services who, based on their review of the data, granted approval for disposal of the excavated materials at the Roosevelt Regional Landfill. Laboratory results for waste characterization samples WCS-1, WCS-2 and WCS-3 and disposal approval obtained from Republic Services are included in Appendix C.

#### **4.6. Cleanup Action Construction**

The activities completed to implement the cleanup action construction are summarized in the following sections.

##### **4.6.1. Construction Oversight**

A GeoEngineers field representative was on Site to observe the remedial excavation activities and obtain verification soil samples to confirm the limits of excavation.

##### **4.6.2. Excavation, Transport and Disposal of Contaminated Soil**

The cleanup action construction was completed between June and August 2023. Soil removal was completed using an excavator. To access the contaminated soil, existing asphalt and concrete paved surfaces were removed within the excavation area. The asphalt and concrete debris were managed, transported and disposed of as contaminated material along with the contaminated soil. The contaminated soil was removed and either loaded directly into truck and trailers for off-site transport and disposal or temporarily accumulated within the footprint of contaminated excavation to enable loading trucks and trailers as they arrived on Site. The excavated contaminated soil generally consisted of brown-gray silty fine to coarse sand and silt with gravel. Groundwater was not encountered during the excavation activities. Soil excavation activities continued until verification soil samples obtained from the excavation base and sidewalls confirmed that the cleanup and remediation levels, respectively, were met. The final limits of remedial excavation were a maximum length of approximately 160 feet and maximum width of approximately 90 feet with depths ranging from approximately 0.5 to 6 feet bgs as shown in Figure 6.

Underground utilities encountered during excavation include underground electrical conduits and a storm drain. Two underground electrical conduits oriented in the north-south direction were observed in the western portion of the excavation and a storm drain oriented in the north-south direction was observed in the eastern portion of the excavation. Both of these underground utilities were exposed at the base of the excavation and were protected in place (Figure 6).

The canopy structure of the paint shop located in the eastern portion of the excavation was also protected in place.

A post-excavation survey was completed by Pacific Surveying & Engineering, Inc. to document the final limits of remedial excavation as shown in Figure 6. Based on a comparison of post-excavation survey to the



pre-construction survey, a total of approximately 1,215 cubic yards of contaminated soil and asphalt/concrete debris were removed and transported off-site for permitted disposal at Roosevelt Regional Landfill located in Roosevelt, Washington, under the Republic Services' profile number 4178238928. Weight tickets issued by Republic Services are included in Appendix D. Based on the landfill weight tickets, a total of 2,100.63 tons of material was disposed.

#### **4.6.3. Verification Soil Sampling and Analysis**

Excavation sidewall samples were collected in general accordance with the EDR at a frequency of one sample per 40 linear feet of sidewall, and base samples were collected at a frequency of one sample per 625 square feet of base. The sample nomenclature contains a letter followed by two numbers. The letter identifies whether the sample was collected from sidewall ("S") or base ("B"). The last number in the sample nomenclature identifies the depth (feet bgs) at which the sample was collected. The middle number is a sequential number assigned to provide a unique identification to each sample.

A total of 19 sidewall verification samples (S-1-2, S-2-2, S-3-1.25, S-4-0.5, S-5-0.5, S-6-0.5, S-7-1.25, S-7A-1.25, S-8-2, S-9-2, S-10-2, S-11-3.25, S-12-5, S-13-1.75, S-14-5, S-15-4.5, S-16-4.25, S-17-5, and S-18-3.25) and 20 base verification samples (B-1-1, B-2-1, B-3-2.5, B-4-2.5, B-4-3.5, B-4-4, B-5-2.5, B-5-3.5, B-6-2.5, B-6-3.5, B-6-4.0, B-6-4.5, B-7-2.5, B-8-6, B-9-4, B-10-4, B-11-4, B-12-4, B-13-4 and B-14-4) were collected from the limits of the excavation. Additionally, two field duplicate samples (DUP-1 and DUP-2, which were duplicates of S-1-2 and B-14-4, respectively) were collected at a frequency of one per every 20 parent soil samples for quality assurance/quality control (QA/QC) purposes in accordance with the requirements of the EDR.

The verification and duplicate soil samples that were collected were submitted to OnSite for the following chemical analysis in accordance with the soil sampling and analysis procedures presented in the EDR:

- Arsenic and nickel by United States Environmental Protection Agency (EPA) Method 6000/7000 series.

#### **4.6.4. Verification Soil Sample Results**

The chemical analytical results for verification soil samples, including field duplicates, are summarized in Table 1. The laboratory reports are presented in Appendix E. The laboratory data was validated for quality and usability. Based on data validation, the laboratory data was determined to be of acceptable quality for its intended use. The Data Validation Report is included in Appendix F.

The concentrations of arsenic and/or nickel exceeded the remediation levels in one of the sidewall samples collected (location S-7-1.25). Soil represented by S-7-1.25 was subsequently removed and a follow-up sidewall sample (S-7A-1.25) was obtained from the newly exposed surface. The concentrations of arsenic and nickel were less than the remediation levels in the remaining sidewall verification samples collected.

The concentrations of arsenic and/or nickel exceeded the cleanup levels in six base samples (B-4-2.5, B-4-3.5, B-5-2.5, B-6-2.5, B-6-3.5, and B-6-4.0). Soil represented by B-4-2.5, B-4-3.5, B-5-2.5, B-6-2.5, B-6-3.5, and B-6-4.0 were subsequently removed and follow up samples were collected from the newly exposed surfaces as follows:

- A follow-up deeper base sample B-4-4 collected from the location of samples B-4-2.5 and B-4-3.5 met the cleanup levels for arsenic and nickel confirming that soil represented by samples B-4-2.5 and B-4-3.5 was successfully removed.
- A follow-up deeper base sample B-5-3.5 collected from the location of sample B-5-2.5 met the cleanup levels for arsenic and nickel confirming that soil represented by sample B-5-2.5 was successfully removed.
- A follow-up deeper base sample B-6-4.5 collected from the location of samples B-6-2.5, B-6-3.5, and B-6-4.0 met the cleanup levels for arsenic and nickel confirming that soil represented by samples B-6-2.5, B-6-3.5, and B-6-4.0 was successfully removed.

The concentrations of arsenic and nickel were less than the cleanup levels in the remaining base verification samples.

The final limit of remedial excavation is represented by 18 sidewall verification samples (S-1-2, S-2-2, S-3-1.25, S-4-0.5, S-5-0.5, S-6-0.5, S-7A-1.25, S-8-2, S-9-2, S-10-2, S-11-3.25, S-12-5, S-13-1.75, S-14-5, S-15-4.5, S-16-4.25, S-17-5, and S-18-3.25) and 14 base verification samples (B-1-1, B-2-1, B-3-2.5, B-4-4, B-5-3.5, B-6-4.5, B-7-2.5, B-8-6, B-9-4, B-10-4, B-11-4, B-12-4, B-13-4 and B-14-4). Approximate locations of the sidewall and base verification samples representative of the final limits of remedial excavation are shown in Figure 6. The location of samples shown on Figure 6 are approximate and were estimated by GeoEngineers field personnel in the field using readily identifiable landmarks. The results of excavation verification samples that are representative of the final limits of the excavation were reported to Ecology's Environmental Information Management (EIM) database.

#### **4.6.5. Cultural Resources Monitoring**

As required by the EDR, excavation activities were monitored by an archeologist to observe for signs of potential cultural resources at the Site. Cultural monitoring was completed by CGA. Two unanticipated isolated resources were discovered during excavation and were determined to be non-significant in nature by the archaeologist. The discoveries were documented as they were uncovered, and excavation activities were allowed to be completed without significant work stoppage. Appropriate notifications with DAHP were completed with documentation of the isolated finds. A DAHP site form was completed for each discovery and submitted to the DAHP WISAARD database. Per Revised Code of Washington (RCW) 42.56.300, the site forms were not included in this report because it contains information identifying the location of cultural resources.

#### **4.7. Site Restoration**

Restoration activities were completed to backfill the excavation and restore site surfaces. The excavation was backfilled using imported crushed rock (crushed surfacing base course [CSBC] and crushed surfacing top course [CSTC]) from Miles Sand and Gravel's Belleville pit (a Washington State Department of Transportation [WSDOT] approved quarry/source). A sample representative of crushed rock was collected from the Belleville pit and submitted to OnSite for chemical analysis of the following analytes, which include Site COCs.

- Metals including arsenic, nickel, cadmium, chromium, lead and mercury;
- Polycyclic aromatic hydrocarbons (PAHs);

- Gasoline-, Diesel- and Heavy Oil-Range Petroleum Hydrocarbons;
- Benzene, ethylbenzene, toluene and xylenes (BETX), and
- Polychlorinated biphenyls (PCBs).

The chemical analytical results were less than Site-specific cleanup levels and MTCA Method A levels for unrestricted land use. The chemical analytical data was submitted for Ecology's review and Ecology's approval (Ecology 2023a) was obtained prior to importing and using crushed rock as a backfill. The chemical analytical data laboratory reports for crushed rock are presented in Appendix G.

An environmental marker (geotextile) was placed along the excavation base and sidewall to serve as a visual marker between the imported fill and the underlying in-place soil. Following the placement of geotextile, the excavation was backfilled using approximately 1,400 tons of CSBC, which was overlain by 285 tons of CSTC to achieve design grades and provide for a compacted subgrade for the placement of concrete and asphalt pavement. Approximately 2-inch- and 4-inch-thick layers of CSTC subgrade was provided under the concrete and asphalt pavement, respectively, in accordance with the project design requirements. Both CSBC and CSTC were placed in lifts and compacted to achieve a minimum of 95 percent compaction in accordance with the project design requirements. Compaction testing was performed by GeoTest, Inc. from Bellingham, Washington. A representative from GeoTest was on Site during backfilling activities to verify that project specified compaction densities were met. Backfill compaction reports are presented in Appendix H.

Following backfilling and preparation of the subgrade, the surface within the existing paint shop structure that was disturbed as a result of excavation was restored with 6 inches of reinforced concrete. The surface outside the existing paint shop structure that was disturbed as a result of excavation was restored with 6 inches of asphalt. Asphalt restoration included paving beyond the northwest remedial excavation limits to protect the integrity of the asphalt edge from the ongoing shipyard operations.

To document as-built conditions, Pacific Surveying and Engineering, Inc. surveyed the Site and provided the as-built survey drawing dated September 25, 2023. A copy of the as-built survey is presented in Appendix I.

#### **4.7.1. Removal of Temporary Site Control Elements and Equipment**

Following completion of remedial excavation and restoration activities, the temporary site control elements including temporary chain link fencing, straw wattles, catch basin inserts, cones, barricades and other site security, traffic control and TESC measures were removed. Equipment, materials and waste resulting from construction work were removed. Equipment (e.g., excavator) used for soil removal activities were decontaminated and cleaned on Site prior to demobilization. The contractor followed decontamination requirements of the project specifications and EDR.

## **5.0 POST-CONSTRUCTION MONITORING**

In accordance with the EDR, Ecology was consulted following the completion of the soil removal activities to identify monitoring wells that will be used for post-construction groundwater compliance monitoring. Shoreline monitoring wells including MW-2B, MW-3A, MW-6 and MW-8 were confirmed by Ecology to be used for post-construction groundwater compliance monitoring (Ecology 2023b). The approximate locations of these monitoring wells are shown in Figure 3. The compliance groundwater monitoring will be

completed on a quarterly basis in accordance with the requirements of the EDR and results will be submitted to Ecology. The quarterly groundwater compliance monitoring activities are planned to be completed by the end of 2024. The sampling, analysis and reporting activities to be completed as part of quarterly groundwater compliance monitoring are described in the EDR. Based on the results of quarterly monitoring, the long-term groundwater monitoring needs and frequency will be determined in consultation with Ecology.

## 6.0 LIMITATIONS

This report has been prepared for the exclusive use of the Port of Anacortes and the Washington State Department of Ecology. No other party may rely on the product of our services unless we agree in advance and in writing to such reliance. Any use of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and written authorization by GeoEngineers, Inc., shall be at the user's sole risk. Any unauthorized use of (or reliance on) this report shall release GeoEngineers from any liability resulting from such use (or reliance). Within the limitations of scope, schedule, and budget, GeoEngineers, Inc.'s respective services have been provided in a manner consistent with that level of care and skill exercised by members of the profession currently practicing in the same locality under similar conditions as this project. No warranty or other conditions, expressed or implied, should be understood. GeoEngineers, Inc. assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available.

Any electronic form, facsimile, or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

## 7.0 REFERENCES

Ecology (Washington State Department of Ecology). 2019. Stormwater Management Manual for Western Washington, prepared by Washington State Department of Ecology Water Quality Program, dated July 2019. Publication Number 19-10-021.

Ecology (Washington State Department of Ecology). 2022. Cleanup Action Plan, Dakota Creek Industries, Anacortes, Washington, Facility Site ID: 2670, Cleanup Site ID: 5147, dated July 2022.

Ecology (Washington State Department of Ecology). 2023a. An email from Ecology to GeoEngineers approving the use of crushed rock material, sourced from Miles Sand and Gravel's Belleville pit, for backfilling remedial excavation. Dated July 20, 2023.

Ecology (Washington State Department of Ecology). 2023b. An email from Ecology to GeoEngineers confirming the use of shoreline monitoring wells MW-2B, MW-3A, MW-6 and MW-8 for post-construction groundwater compliance monitoring. Dated October 2, 2023.

GeoEngineers Inc. (GeoEngineers). 2022a. Engineering Design Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. November 1.

GeoEngineers Inc. (GeoEngineers). 2022b. Remedial Investigation/Feasibility Study Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. October 27.

# Table 1

## Verification Soil Sample Results

Dakota Creek Industries

Anacortes, Washington

Sample Identification	Laboratory Sample Identification	Sample Depth (ft bgs)	Sample Date	Units	Total Metals <sup>1</sup>	
					Arsenic	Nickel
<b>Sidewall Verification Samples</b>						
<b>Soil Remediation Level:</b>					<b>60</b>	<b>144</b>
S-1-2	2307-024	2	07/06/23	mg/kg	10 U	<b>19</b>
DUP-1 (Parent: S-1-2)	2307-024	2	07/06/23	mg/kg	11 U	<b>17</b>
S-2-2	2306-321	2	06/26/23	mg/kg	10 U	<b>28</b>
S-3-1.25	2306-321	1.25	06/26/23	mg/kg	10 U	<b>57</b>
S-4-0.5	2306-321	0.5	06/26/23	mg/kg	11 U	<b>66</b>
S-5-0.5	2306-321	0.5	06/26/23	mg/kg	11 U	<b>130</b>
S-6-0.5	2306-321	0.5	06/26/23	mg/kg	10 U	<b>76</b>
S-7-1.25 <sup>2</sup>	2306-321	1.25	06/26/23	mg/kg	<b>63</b>	<b>42</b>
S-7A-1.25	2306-393	1.25	06/29/23	mg/kg	<b>58</b>	<b>40</b>
S-8-2	2306-321	2	06/26/23	mg/kg	<b>16</b>	<b>36</b>
S-9-2	2306-321	2	06/26/23	mg/kg	<b>47</b>	<b>48</b>
S-10-2	2306-321	2	06/26/23	mg/kg	11 U	<b>40</b>
S-11-3.25	2307-050	3.25	07/11/23	mg/kg	12 U	<b>34</b>
S-12-5	2307-050	5	07/11/23	mg/kg	11 U	<b>6.9</b>
S-13-1.75	2306-321	1.75	06/26/23	mg/kg	10 U	<b>57</b>
S-14-5	2307-050	5	07/11/23	mg/kg	10 U	<b>6.6</b>
S-15-4.5	2307-050	4.5	07/11/23	mg/kg	11 U	<b>37</b>
S-16-4.25	2307-050	4.25	07/11/23	mg/kg	11 U	<b>23</b>
S-17-5	2307-050	5	07/11/23	mg/kg	11 U	<b>8.4</b>
S-18-3.25	2307-082	3.25	07/13/23	mg/kg	<b>23</b>	<b>49</b>
<b>Base Verification Samples</b>						
<b>Soil Cleanup Level:</b>					<b>20</b>	<b>48</b>
B-1-1	2306-359	1	06/27/23	mg/kg	11 U	<b>27</b>
B-2-1	2306-359	1	06/27/23	mg/kg	11 U	<b>34</b>
B-3-2.5	2307-050	2.5	07/11/23	mg/kg	10 U	<b>29</b>
B-4-2.5 <sup>2</sup>	2307-024	2.5	07/06/23	mg/kg	10 U	<b>79</b>
B-4-3.5 <sup>2</sup>	2307-024	3.5	07/06/23	mg/kg	<b>150</b>	<b>27</b>
B-4-4	2307-050	4	07/11/23	mg/kg	10 U	<b>5</b>
B-5-2.5 <sup>2</sup>	2307-024	2.5	07/06/23	mg/kg	<b>28</b>	<b>37</b>
B-5-3.5	2307-024	3.5	07/06/23	mg/kg	11 U	<b>6.7</b>
B-6-2.5 <sup>2</sup>	2307-050	2.5	07/11/23	mg/kg	<b>34</b>	<b>41</b>
B-6-3.5 <sup>2</sup>	2307-050	3.5	07/11/23	mg/kg	<b>39</b>	<b>23</b>
B-6-4 <sup>2</sup>	2307-082	4	07/13/23	mg/kg	<b>45</b>	<b>73</b>
B-6-4.5	2307-082	4.5	07/13/23	mg/kg	12 U	<b>34</b>
B-7-2.5	2307-050	2.5	07/11/23	mg/kg	12 U	<b>32</b>
B-8-6	2306-321	6	06/26/23	mg/kg	11 U	<b>16</b>
B-9-4	2307-024	4	07/06/23	mg/kg	11 U	<b>8.8</b>
B-10-4	2307-037	4	07/07/23	mg/kg	10 U	<b>6</b>
B-11-4	2307-037	4	07/07/23	mg/kg	11 U	<b>39</b>
B-12-4	2307-044	4	07/10/23	mg/kg	12 U	<b>7.6</b>
B-13-4	2307-044	4	07/10/23	mg/kg	11 U	<b>18</b>
B-14-4	2307-044	4	07/10/23	mg/kg	11 U	<b>33</b>
DUP-2 (Parent: B-14-4)	2307-044	4	07/10/23	mg/kg	11 U	<b>31</b>

**Notes:**

<sup>1</sup> Metals analyzed by OnSite Environmental (OnSite) of Redmond, WA using United States Environmental Protection Agency (EPA) Method 6010D.

<sup>2</sup> Soil represented by this sample was subsequently removed from the Site to remove exceedances of remediation/cleanup levels.

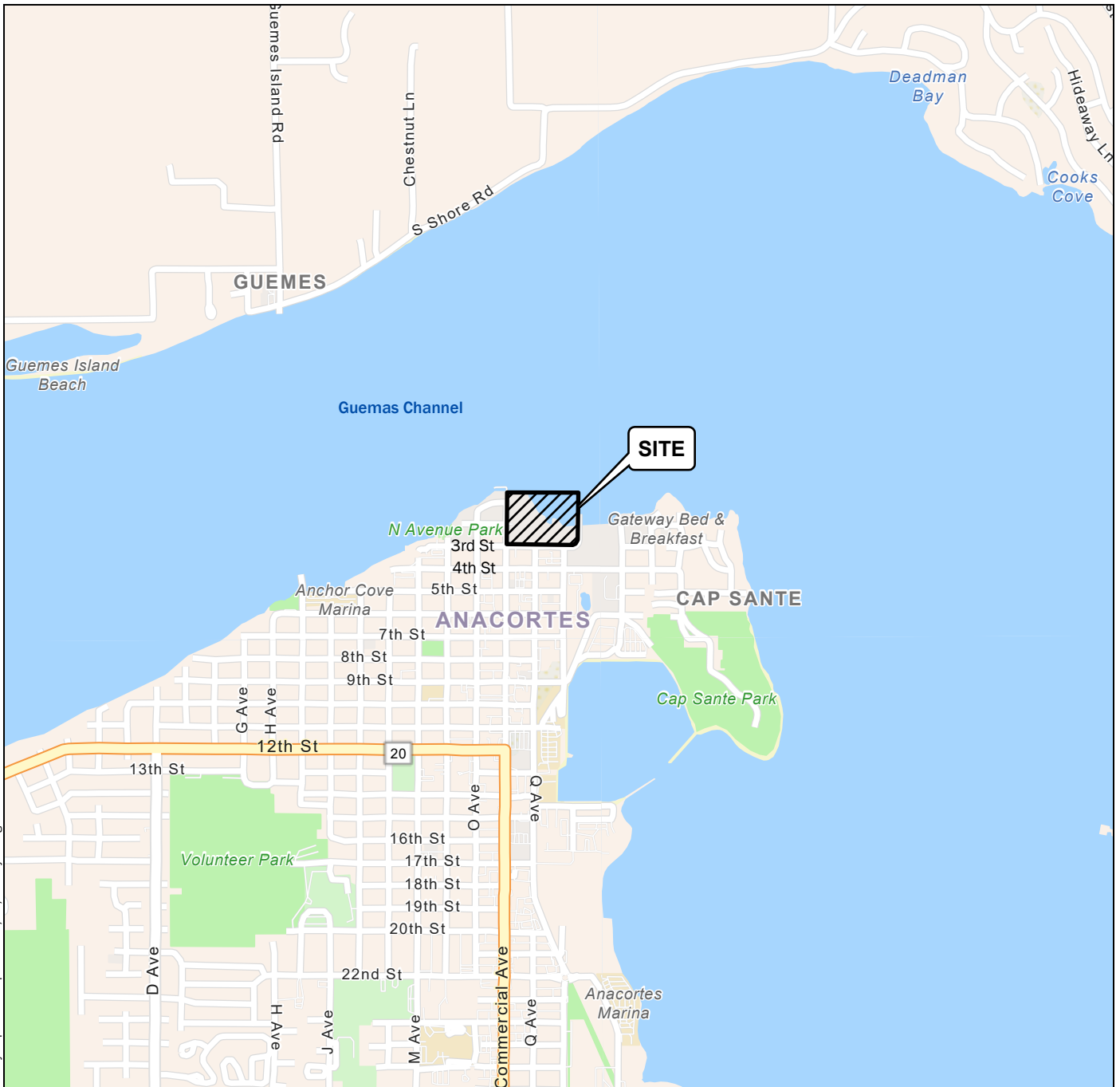
ft bgs = feet below the ground surface

mg/kg = milligram per kilogram

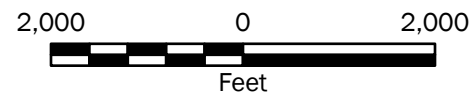
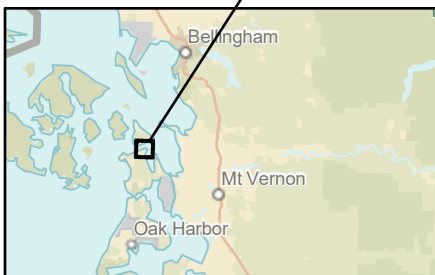
U = qualifier indicating analyte not detected at level above listed practical quantitation limit

**Bold** indicates analyte was detected.

Gray shading indicates analyte was detected at a concentration above applicable remediation or cleanup Level.



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**Vicinity Map**

Port of Anacortes - Dakota Creek Industries  
Anacortes, Washington



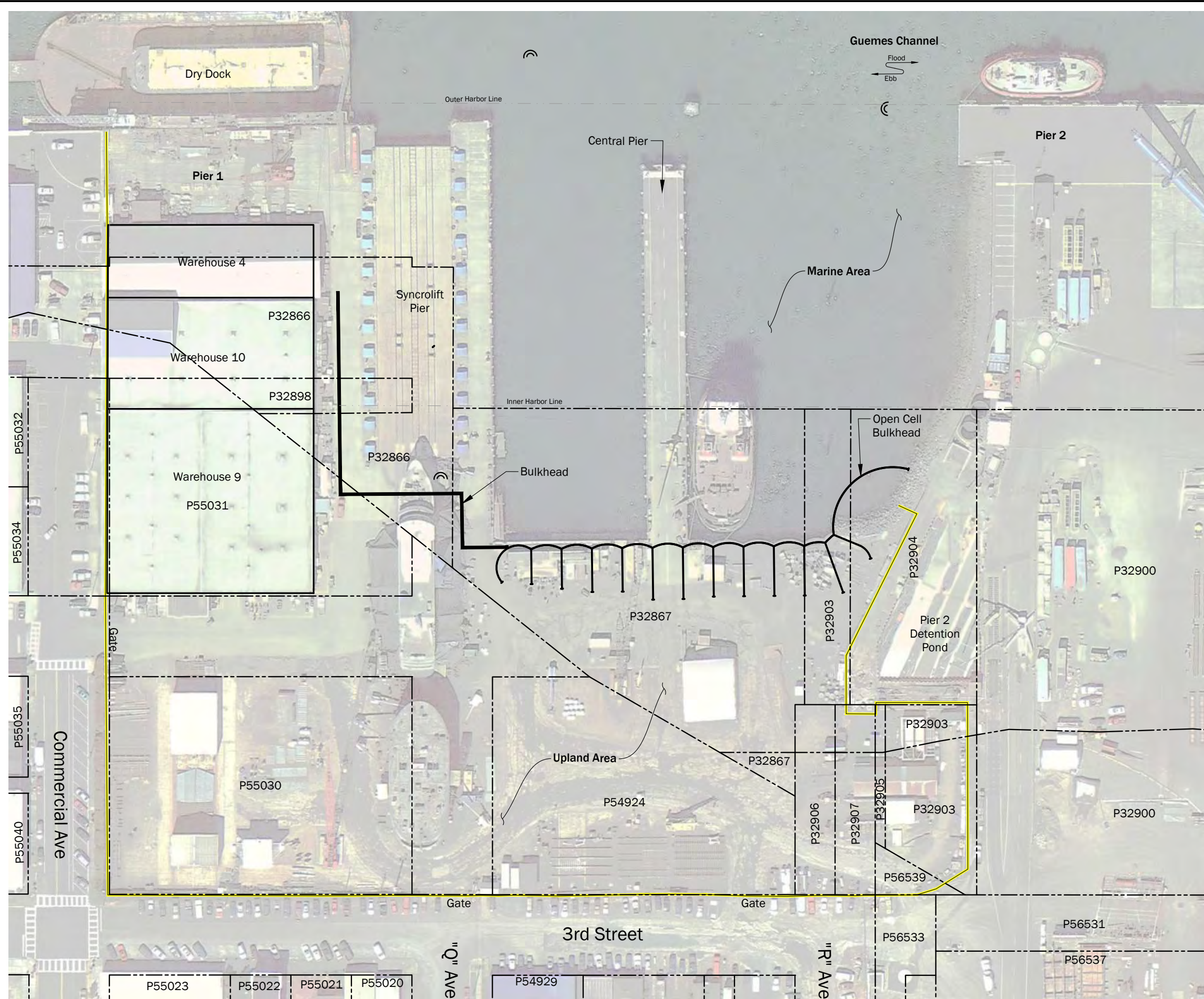
**Figure 1**

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: ESRI  
Projection: NAD 1983 UTM Zone 10N

P:\5147006\CAD\17\Cleanup Action - Const Observation\514700617\_F02\_Parcel Map.dwg TAB:F01.2 Date Exported: 11/01/23 - 7:33 by kcook



**Legend**

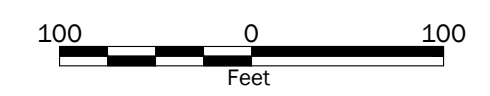
- Dakota Creek Industries (DCI) Lease Area
- Skagit County Parcel Boundary and Number

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 8/2011.

Projection: WA State Plane, North Zone, NAD83, US Foot



**Parcel Map**

Dakota Creek Industries  
Anacortes, Washington



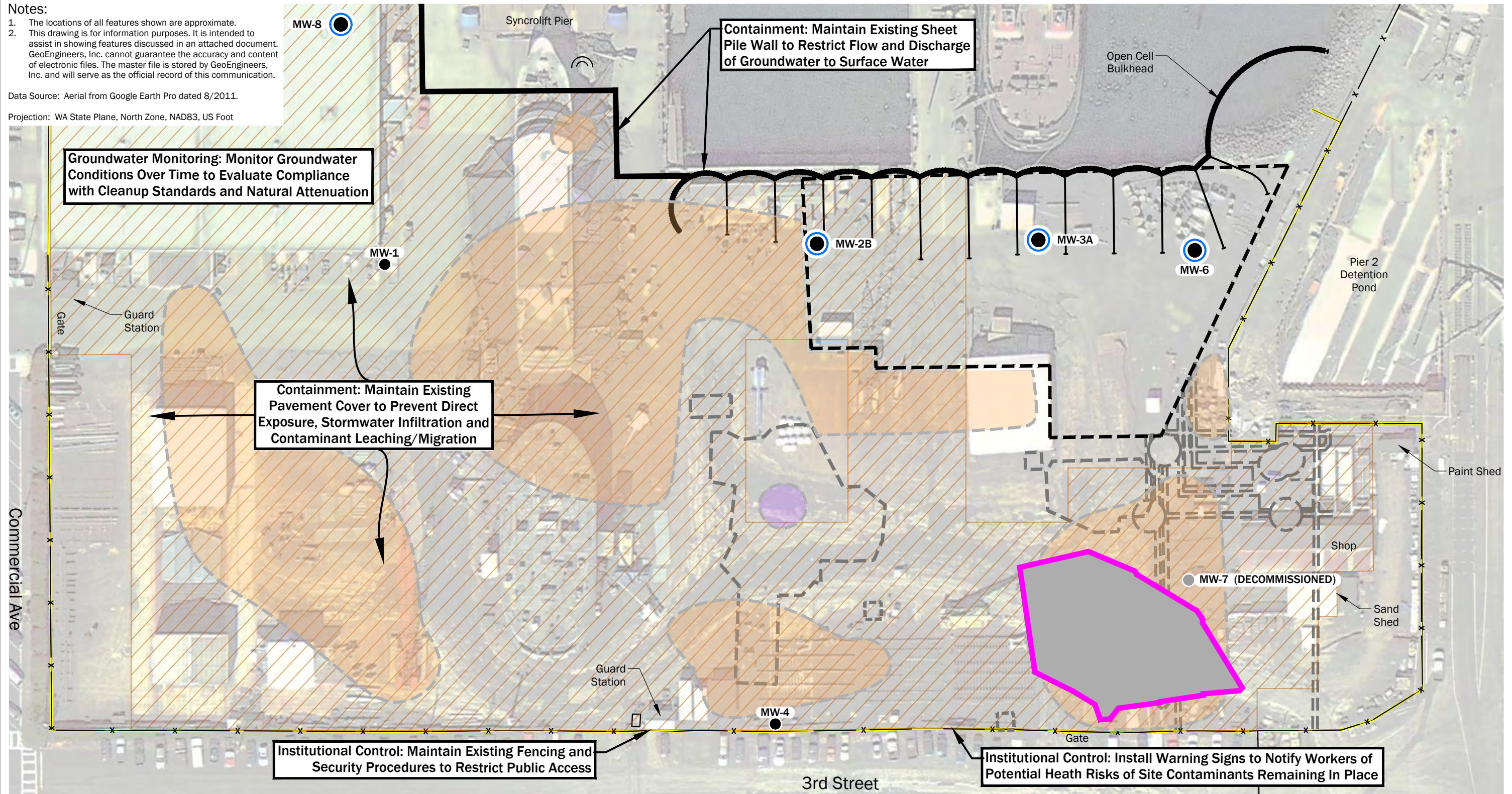
**Figure 2**



**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 8/2011.

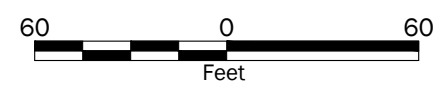
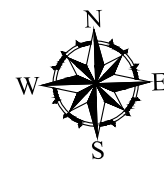
Projection: WA State Plane, North Zone, NAD83, US Foot



P:\5147006\CAD\17\Cleanup Action - Const Observation\514700617\_F03\_Overview of Cleanup Action.dwg:TAB:F03 Date Exported: 11/06/23 - 7:53 by kcook

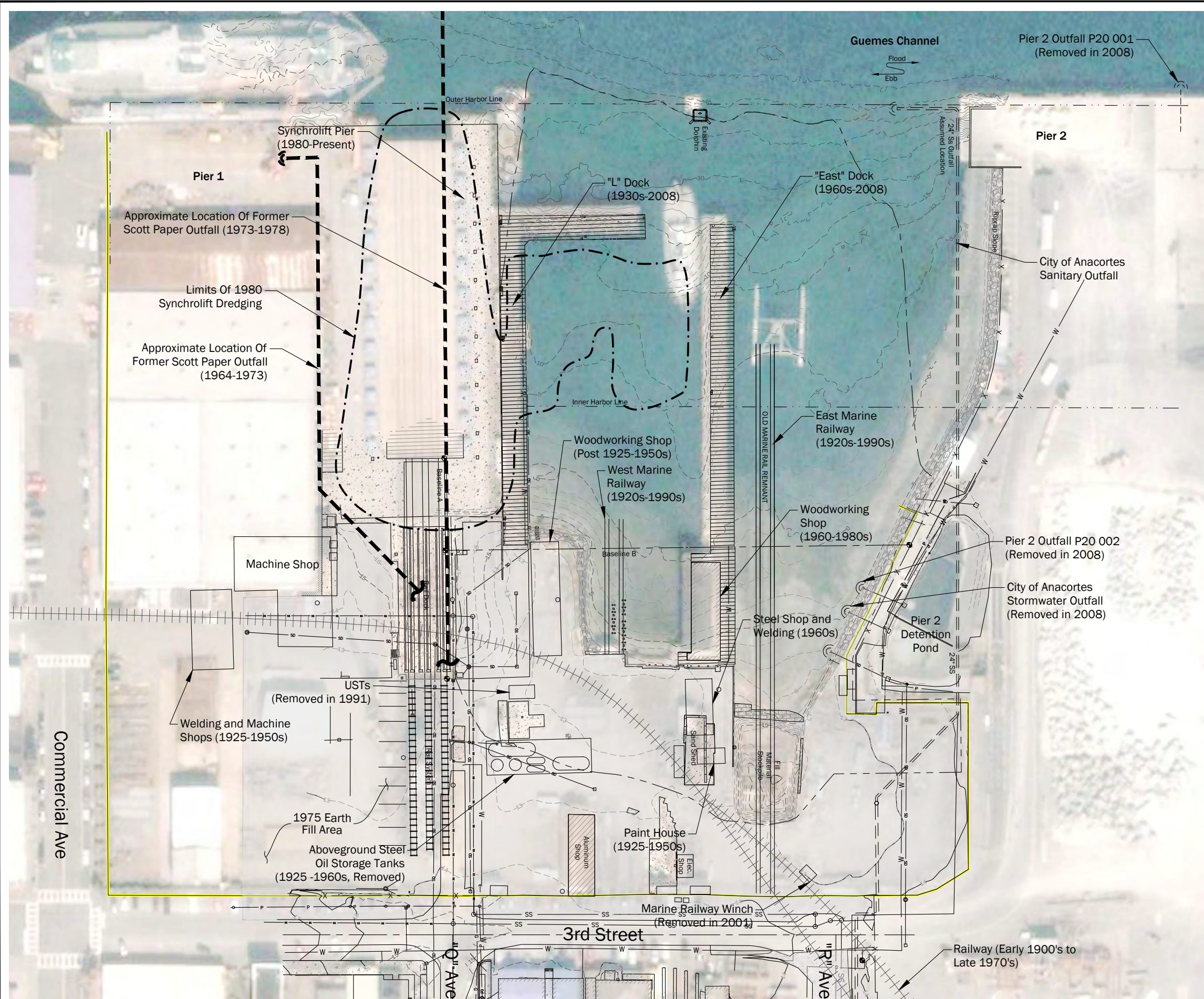
**Legend**

- Dakota Creek Industries (DCI) Lease Area
- Previous Marine Area Dredge and Backfill Area
- Previous Upland Soil Excavation and Backfill Area
- Existing Bulkhead
- Existing Fence
- Existing Asphalt/Concrete Pavement
- Area in Which Metals (Arsenic and/or Nickel) in Soil Exceed The Preliminary Cleanup Level
- Area in Which Total cPAH TEQ in Soil Exceed The Preliminary Cleanup Level
- Remedial excavation completed in 2023. Refer to Figure 6 for excavation details and excavation limits verification soil sampling locations.
- MW-4 Existing Monitoring Well Location
- MW-7 Decommissioned Monitoring Well Location
- MW-8 Monitoring Well to be used for Compliance Monitoring



<b>Overview of Cleanup Action</b>	
Dakota Creek Industries Anacortes, Washington	
	<b>Figure 3</b>

P:\5147006\CAD\17\Cleanup Action - Const Observation\514700617\_F04\_Historical Property Layout.dwg TAB:F04 Date Exported: 11/01/23 - 9:47 by kcook



**Legend**

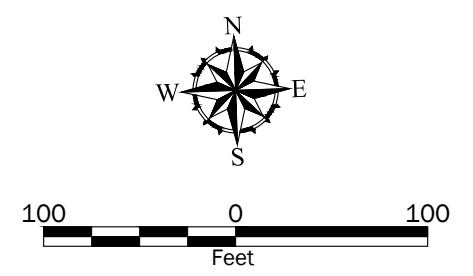
- Dakota Creek Industries (DCI) Lease Area
- Existing Fence
- Catch Basin
- Sewer Manhole
- Storm Manhole
- Gravel
- Concrete
- Rip Rap
- Approximate Synchrolift Dredge Limits
- Elevation Contour
- Approximate Footprint of Historical Structures - Labels Indicate Function and Time Period in Existence.
- Sanitary Sewer

**Notes:**

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: AutoCAD drawing entitled "Existing Conditions and Project Control", file name 064065.01-1.14.dwg, by PND Engineers, Inc., dated September 2007.  
Aerial from Google Earth Pro dated 9/6/2006.

Projection:  
Horizontal Datum: WA State Plane, North Zone, NAD83, US Foot  
Vertical Datum: Mean Low Low Water (MLLW)



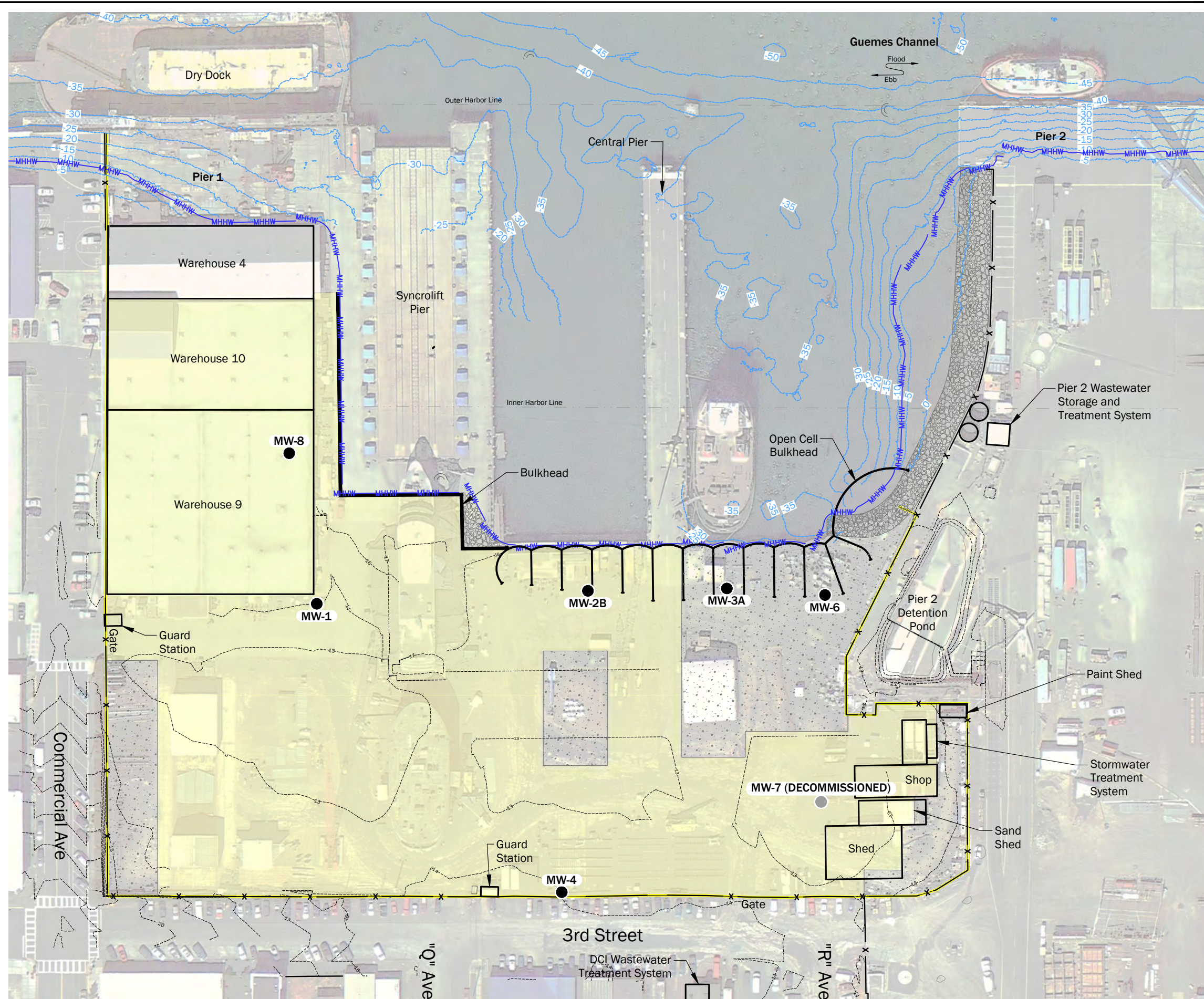
**Historical Property Layout and Features**

Dakota Creek Industries  
Anacortes, Washington

**GEOENGINEERS**

**Figure 4**

P:\5147006\CAD\17\Cleanup Action - Const Observation\514700617\_F05\_Current Property Layout.dwg TAB:F05 Date Exported: 11/07/23 - 8:10 by kcook



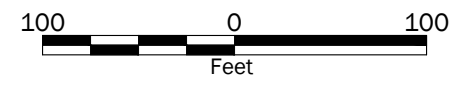
**Legend**

- Dakota Creek Industries (DCI) Lease Area
- Existing Fence
- Outfall
- Gravel
- Concrete/Asphalt Pavement or Asphalt for Building
- Rip Rap
- Topographic Contour
- Bathymetric Contour
- Mean Higher High Water (MHHW)
- MW-1 Existing Monitoring Well Location
- MW-7 Decommissioned Monitoring Well Location

**Notes:**

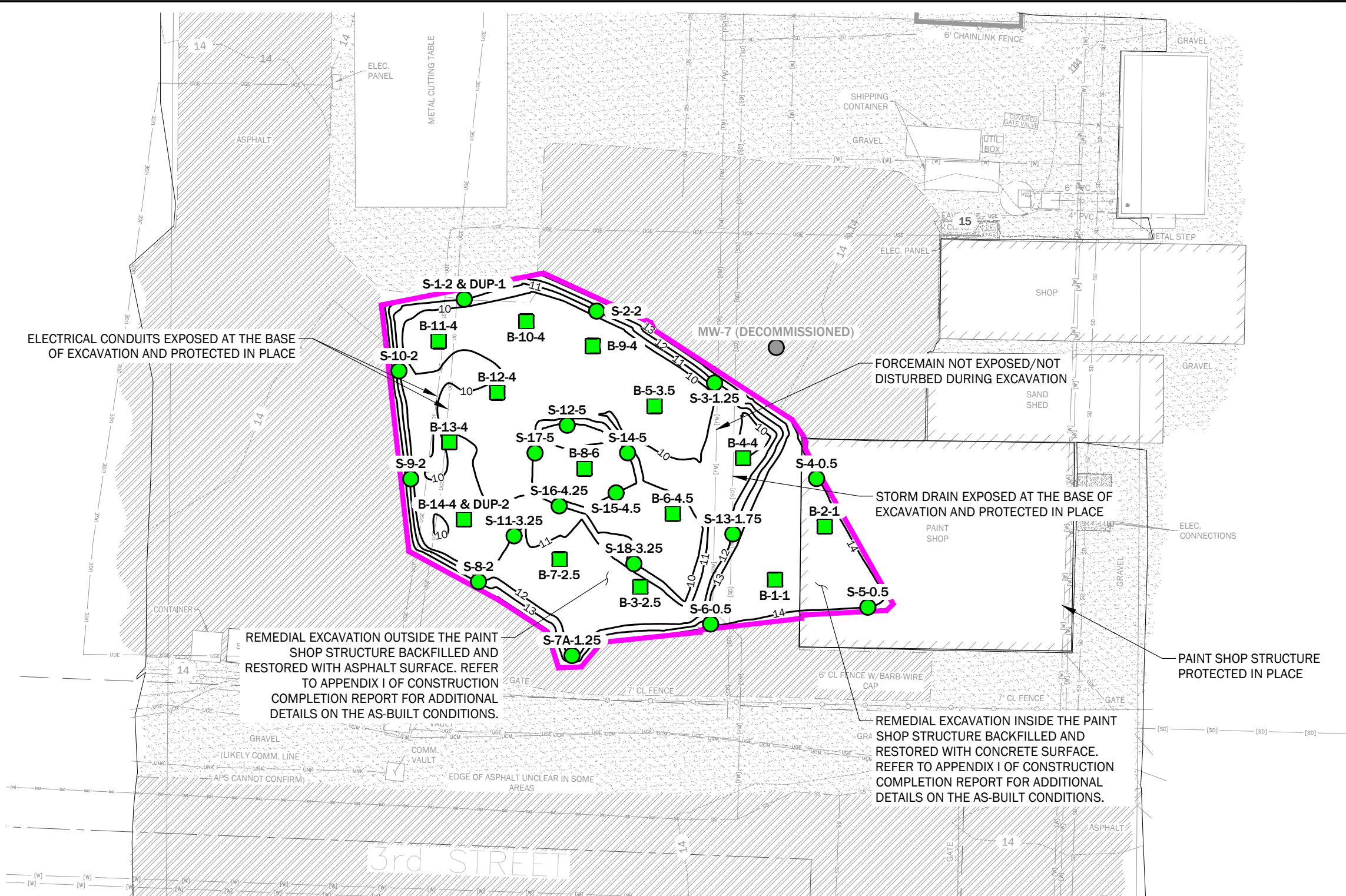
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 8/2011.  
 Projection: Horizontal Datum: WA State Plane, North Zone, NAD83, US Foot  
 Vertical Datum: Mean Low Low Water (MLLW)



<b>Current Property Layout and Features</b>	
Dakota Creek Industries Anacortes, Washington	
	<b>Figure 5</b>

P:\5147006\CAD\17\Cleanup Action - Const Observation\514700617\_F06\_Proposed Soil Sampling Locations.dwg TAB:F06 Date Exported: 12/04/23 - 14:06 by kcook



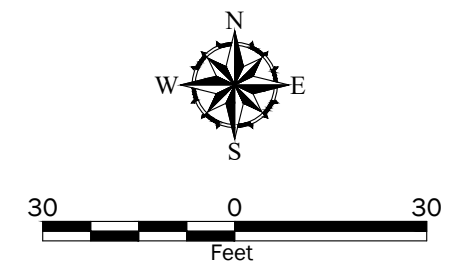
- Legend**
- Remedial Excavation Limits
  - 14— Excavation Contour<sup>1</sup> (feet MLLW)
  - B-1-1 Base Verification Sample with chemical analytical results less than the cleanup levels. Refer to Table 1 of Construction Completion Report for results.
  - S-3-1.25 Sidewall Verification Sample with chemical analytical results less than the remediation levels. Refer to Table 1 of Construction Completion Report for results.
  - MW-7 Decommissioned Monitoring Well Location

- Notes:**
1. Based on post-excavation survey performed by Pacific Surveying & Engineering, Inc. dated July 20, 2023.
  2. Survey base map (outside the limits of excavation) is based on survey performed by Pacific Surveying & Engineering dated March 4, 2022.
  3. The locations of all features shown are approximate.
  4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Horizontal Datum: NAD83/91 Washington State Plane North Zone  
 Vertical Datum: Mean Lower Low Water (MLLW) on NOAA Tidal Datum Epoch 1941-1959. Based on Port of Anacortes Survey Control Monument "Jetty-2".

- Survey Base Map Legend**
- 14— Existing Contour (feet MLLW)
  - Existing Edge Of Asphalt
  - Existing Edge Of Concrete
  - SD Existing Storm Drain Line
  - [SD] Storm Drain Line Per Records\*
  - SS Existing Sanitary Sewer Gravity Line
  - [SS] San. Sanitary Sewer Gravity Line Per Records\*
  - [FM] San. Sewer Forcemain Per Records\*
  - w Existing Water Line
  - [W] Water Line Per Records\*
  - UPE Existing Underground Power
  - UCM Existing Underground Communications Line
  - Existing Chainlink Fence
  - Public Right Of Way Margin

- ▲ Set Rebar & Orange Plastic Cap
  - Set Mag Nail
  - ⊙ Existing Storm Drain Manhole
  - Existing Catch Basin
  - Existing Sanitary Sewer Manhole
  - ▨ Asphalt
  - ▩ Gravel
- Surveyors Note:  
 \*Utilities of record are shown per drawings provided by Dakota Creek Industries titled "Dakota Creek Shipyard Yard Utilities Plan" dated 11-2-2009.



<b>Remedial Excavation Limits and Verification Soil Sampling Locations</b>	
Dakota Creek Industries Anacortes, Washington	
	<b>Figure 6</b>

**APPENDIX A**  
**Regulatory Documents**



## STATE ENVIRONMENTAL POLICY ACT (SEPA) CHECKLIST

### A. BACKGROUND

**1. Name of proposed project, if applicable:**

Dakota Creek Industries Cleanup Site

**2. Name of applicant:**

Port of Anacortes

**3. Address and phone number of applicant and contact person:**

Applicant:

Kevin Anderson  
Environmental Specialist  
Port of Anacortes  
100 Commercial Ave  
Anacortes, WA 98221  
360.299.1827  
Kevin.anderson@portofanacortes.com

Authorized Agent:

Robert Trahan  
Senior Environmental Scientist  
GeoEngineers, Inc.  
2101 4<sup>th</sup> Avenue #950  
Seattle, WA 98121  
206.239.3250  
rtrahan@geoengineers.com

**4. Date checklist prepared:**

June 11, 2021

**5. Agency requesting checklist:**

Port of Anacortes

**6. Proposed timing or schedule (including phasing, if applicable):**

Implementation of the cleanup action (construction of the project) is currently anticipated to begin in 2022. Construction will not begin until the required agency approvals are obtained.

**7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**



No. The Site is currently zoned for industrial use (Manufacturing/Shipping [MS]), characterized by marine shipping, transportation, and other industrial uses. Although the specific future uses of the Site is dependent on the operations of the Port's lessees, it is likely to continue to be for industrial purposes including shipbuilding, ship repairs and other maritime-related industrial business at least through the duration of the current tenant's lease.

**8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

- A-1 Pump Services (A-1). 1991. Site Assessment Case File No. 6281, Dakota Creek Industries, 820 4th Street, Anacortes, Washington. October.
- Anchor Environmental, L.L.C. (Anchor). 2004. Sampling and Analysis Data Report, Supplemental Sediment Characterization, Dakota Creek Industries Shipyard Facility/Pier 1 Redevelopment Area, Anacortes, Washington. Prepared for Seattle District, US Army Corps of Engineers.
- Otten Engineering (Otten). 1997. Phase 2 Environmental Assessment, Dakota Creek Industries Site and Former Wastewater Treatment Plant Site, Port of Anacortes, Anacortes, Washington. Prepared for Port of Anacortes. October 1.
- Science Application International Corporation (SAIC). 2008. Fidalgo Bay Sediment Investigation Data Report, Anacortes, Washington. Prepared for the Washington State Department of Ecology. March 14.
- Floyd|Snider. 2006. Dakota Creek Industries Shipyard Facility, Groundwater Sampling Results. Prepared for Port of Anacortes. December 13.
- Floyd|Snider. 2007. Dakota Creek Industries Shipyard Facility, Sediment Sampling Data Report. Prepared for Port of Anacortes. January 3.
- GeoEngineers Inc. (GeoEngineers). 2008. Final Work Plan, Remedial Investigation/Feasibility Study and Interim Action Work Plan – Dakota Creek Industries. Prepared for the Washington State Department of Ecology on behalf of Port of Anacortes. April 1.
- GeoEngineers Inc. (GeoEngineers). 2008. Interim Action Work Plan Addendum, Dakota Creek Industries Shipyard, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Port of Anacortes. June 17.
- GeoEngineers Inc. (GeoEngineers). 2010. Interim Action Report, Dakota Creek Industries, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Port of Anacortes. October 6.
- GeoEngineers Inc. (GeoEngineers). 2010. Remedial Investigation Data Report, Dakota Creek Industries, Anacortes, Washington. Prepared for the Port of Anacortes. October 11.
- GeoEngineers Inc. (GeoEngineers). 2018. Groundwater Monitoring Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. August 6.
- GeoEngineers Inc. (GeoEngineers). 2020. Remedial Investigation/Feasibility Study Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. April 27.
- GeoEngineers Inc. (GeoEngineers). 2021. Supplemental Soil Investigation Data Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. May 11.
- GeoEngineers Inc. (GeoEngineers). 2021. Draft Cleanup Action Plan, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080.



Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. June.

- Landau Associates (Landau). 2002. Cleanup Action Plan and Cleanup Action Work Plan, Dakota Creek Industries Shipyard Facility, Anacortes, Washington. Prepared for Port of Anacortes. March 20.
- Landau Associates (Landau). 2002. Remedial Investigation/Feasibility Study, Dakota Creek Industries, Inc. Anacortes, Washington. Prepared for Port of Anacortes. March 20.
- Landau Associates (Landau). 2002. Completion Report, Independent Cleanup Action, Dakota Creek Industries, Inc. Anacortes, Washington. Prepared for Port of Anacortes. December 20.
- Landau Associates (Landau). 2001. Technical Memorandum re: Marine Railway Hydraulic Winch Soil Excavation, Dakota Creek Industries Shipyard, Anacortes, Washington. Prepared for Port of Anacortes. August 7.
- Weston. 2001. Dakota Creek Industries Shipyard Site Inspection Final Sampling and Quality Assurance Plan. Prepared for the U.S. Environmental Protection Agency, Contract No. 68-S0-01-02. June 4.

**9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

None are known.

**10. List any government approvals or permits that will be needed for your proposal, if known.**

The proposed cleanup action will be conducted as a final remedial action under a Consent Decree with the Washington Department of Ecology (Ecology) within the authority of the state Model Toxics Control Act (MTCA). The proposed action is exempt from the procedural requirements of state and local permits that would otherwise be required, per RCW 70.105D.090.

**11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)**

The Port of Anacortes (Port) proposes to implement cleanup of approximately 13,500 square feet in the upland property on the Dakota Creek Industries site (Site). The cleanup is in the located along the historic shoreline of Guemes Channel and has been used for marine and industrial activities since 1879. Elevated levels of arsenic and nickel (three times the proposed soil cleanup level) have been identified in soil and groundwater on the Site and are the result of historic fill and past uses of the property. The Site is currently surfaced in asphalt with two existing buildings. The Port leases the property to Dakota Creek Industries, who operates an industrial shipyard.

The Site has been investigated under an Agreed Order with Ecology. The Port, in cooperation with Ecology has prepared a draft Cleanup Action Plan. Cleanup of the Site is expected to last for approximately eight to ten weeks, and after the project is complete, the Site will be returned to the existing use as a shipyard. The project elements include:

- Excavation and removal of approximately 6,500 cubic yards (CY) of contaminated soil contaminated with nickel and arsenic and transport excavated material off site for disposal





at a permitted facility.

- Dewatering and treatment of water from the excavation during the cleanup action. Treated water will be discharged to the Publicly Owned Treatment Works (POTW) facility with approval from the City of Anacortes.
- Backfilling and compaction of overburden and/or clean imported fill and repaving the surface with asphalt to match the existing grade.
- Monitoring Site surfaces and groundwater on a long-term basis to evaluate the cleanup action effectiveness. In some areas, Site surfaces act to contain contamination that will not be removed by the excavation activities. An additional monitoring well will be installed as part of the project.
- Implement institutional controls in the form of an environmental covenant to protect workers at the Site and to protect the final remedial action.

This cleanup action will meet the requirements of WAC 173-340-360(2)(a) by protecting human health and the environment. It will ensure compliance with state cleanup levels and provide monitoring to ensure long term compliance with the regulations.

- 12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.**

The proposed project site is located at 115 Q Avenue, Anacortes, WA. The project will occur within a number of parcels including: P32867, P32906, P32907, and P54924. See attached site plan as well.

**Legal Descriptions:**

- P32867-- TRS 4 & 16 PL 9, SECTION 18, TOWNSHIP 35 NORTH, RANGE 2 EAST, W.M., INC VAC PTN 2ND & BROADWAY ST ADJ & W 15FT VAC R ST ADJ TGW E1/2 VAC Q AVE ADJ TR 4 ORD #1707 AF#862268 LESS FDT BAAP ON E LI R AVE 40FT N OF N LI 3RD ST TH E 10FT TH N 150FT TH W 10FT TO E LI R AVE TH S 150FT TPOB
- P32906 – ANACORTES TIDE LANDS TH PTN W1/2 VAC R AVE LY BTW A LI 40FT N OF & PLT N LI 3RD ST & A LI 190FT N OF & PLT N LI OF 3RD ST, SECTION 18, TOWNSHIP 35 NORTH, RANGE 2 EAST, W.M.
- P32907-- ANACORTES TIDE LANDS TH PTN E1/2 VAC R AVE LY BTW A LI 40FT N OF & PLT N LI 3RD ST & A LI 190F TN
- P54924 – ANACORTES BLK 3-TGW VAC ALLEY THRU BLK ORD#1775& PLT N LI 3RD ST, SECTION 18, TOWNSHIP 35 NORTH, RANGE 2 EAST, W.M.

**B. ENVIRONMENTAL ELEMENTS**



## 1. Earth

- a. **General description of the site (circle one):** Flat, rolling, hilly, steep slopes, mountainous, other . . . . .

The Site is located in an industrial waterfront setting, along Guemes Channel adjacent to the shoreline.

- b. **What is the steepest slope on the site (approximate percent slope)?**

The existing topography of the Site is flat (<1%).

- c. **What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.**

Soil investigations were conducted by GeoEngineers, Inc. for this cleanup project as required for the Ecology Agreed Order. Boring logs showed that the soils encountered at the Site consist of historic fill of layered sand and silt with occasional wood debris and native beach deposits overlying glaciomarine drift soils. The fill observed in the explorations ranged from fine to coarse sand with gravel to organic silt.

- d. **Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.**

No. There are no visual surface indications or history of unstable soils in the immediate vicinity.

Portions of the general project area are identified as geologically hazardous on the City of Anacortes' Natural Resource and Critical Areas maps. This designation is due to historic filling in the area, which means the Site could be susceptible to liquefaction or subsidence during a major seismic event.

- e. **Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Approximately 6,500 CY of contaminated soil will be excavated and hauled off site. Backfilling of excavated areas will be performed to restore existing grades. Grading of the disturbed upland areas of the Site will occur after backfilling activities are complete.

- f. **Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Erosion is not expected due to the limited area and scope of excavation activities and the flat topography of the Site. The Site is currently not vegetated. Potential erosion will be minimized through implementation of Best Management Practices (BMPs) and any additional erosion control measures required by regulatory agencies. Stormwater is managed at the Site as part of the shipyard activities.

- g. **About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**



The proposed activities will take place within the current developed area as the Site is currently covered with asphalt. Areas that are excavated will be backfilled and surfaced with asphalt restoring the Site to its previous condition.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:** Contractors will be required to implement BMPs for erosion control during active construction and excavation consistent with Ecology's Stormwater Management Manual for Western Washington. During Site preparation and construction, exposed soils will be kept to a minimum and management measures will be implemented to minimize and control sediment and erosion. BMPs such as construction fencing, silt fence, covered stockpiles, prevention of soils from entering storm drains, stabilized construction entrance, straw wattles, interceptor swales, check dams and/or triangular silt dikes will be implemented as applicable to contain sediment and prevent discharge off-site. The design documents will provide erosion and sediment control requirements that the contractor will follow during construction.

## 2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

It is anticipated that during construction, there will be emissions from internal combustion engines associated with construction vehicles and other construction equipment. These short-term air emissions are expected to be limited to diesel and gasoline engine emissions from trucks and other heavy equipment being used for excavation, backfilling, and grading. These emissions will be temporary in duration and not expected to differ from similar activities within other areas of a working shipyard. No adverse long-term impacts are anticipated. Off-site air quality impacts from construction activities are not anticipated. Minor and temporary dust produced from the construction phase of the project will be controlled with appropriate measures. In addition, the project once complete will not generate air emissions.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

Off-site emission or odor sources have not been identified. Anacortes, or any part of Skagit County, is not designated as an air quality nonattainment area by the US Environmental Protection Agency (EPA).

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:**

Construction activities will utilize the proper precautions to minimize dust emissions. Potential minimization actions include, the use of water, reducing vehicle speeds, vehicle cleaning prior to exiting the Site to prevent track-out of mud or dirt onto paved public roadways, and sweeping/vacuuming.

## 3. Water

- a. Surface:**



- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

The Guemes Channel is located adjacent to the project area to the north.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

The proposed work includes excavation activities are more than 200 feet from the ordinary high water mark (OHWM) for Guemes Channel. See Figure 4.2 for the approximate area for excavation of contaminated soil.

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

No fill or dredge material will be placed in or removed from surface water or wetlands as part of the project.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

The project does not include surface water withdrawals or diversions.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

No.

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No.

#### **b. Ground Water:**

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

Groundwater conditions at the Site suggest that soil excavations extending below approximately 5 feet below ground surface will encounter groundwater. Removal of groundwater that fills in the excavation may be required to facilitate excavation and reduce the water content of excavated soils. If necessary, water collected during dewatering activities may be stored in tanks and treated prior to disposal in the sanitary sewer. If excavation water is discharged to the sanitary sewer, water will also be treated to comply with sanitary sewer discharge standards.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the**



following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

This project does not include discharge of waste materials into the ground.

**c. Water runoff (including stormwater):**

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

BMPs will be implemented throughout construction activities to manage runoff water. Following the excavation and backfilling, asphalt will be placed on the area and stormwater will be collected by the shipyard system or infiltrate unpaved areas of the Site. In areas of the Site outside the excavation area where impermeable surfaces exist, stormwater collection will be through existing catch basins and piping with eventual treatment and permitted discharge via existing stormwater outfalls to Guemes Channel.

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

There is a small potential that waste materials could enter ground or surface waters due to an accidental spill during construction. Construction BMPs are proposed to avoid construction-related spills and discharges, and the contractor will abide by a Spill Prevention, Control, and Countermeasure (SPCC) Plan.

**d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:**

To minimize impacts to surface waters, staging and stockpiling work will be outside of the shoreline jurisdiction. Care will be taken to prevent any petroleum products, chemicals, or other toxic materials from entering the water. Contractors will be required to have a SPCC Plan and will have spill kits, absorbent pads and other appropriate materials necessary to contain and clean up an accidental spill at the Site. BMPs will be implemented consistent with federal, state, and local requirements.

**4. Plants**

**a. Check or circle types of vegetation found on the site: None**

- deciduous tree:  
 evergreen tree:  
 Shrubs:  
 grass – various,  
 pasture  
 crop or grain  
 wet soil plants:  
 water plants:



\_\_\_\_\_ other types of vegetation:

**b. What kind and amount of vegetation will be removed or altered?**

There is no significant vegetation on the Site.

**c. List threatened or endangered species known to be on or near the site.**

No known threatened or endangered plant species are on or near the project site.

**d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:**

These measures are not proposed.

**e. List all noxious weeds and invasive species known to be on or near the site.**

None known.

**5. Animals**

**a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site:**

There are no known animal habitats located on the Site. Several bald eagle nesting territories occur in the vicinity, primarily to the west of the project site near Fidalgo Bay, West Guemes Channel and Guemes Island. Several osprey nesting territories also occur in the Anacortes area, but these are located inland. Numerous waterfowl and shorebirds also use the area, primarily in the winter and during migration. Various marine animals use the waters adjacent to the Site.

**b. List any threatened or endangered species known to be on or near the site.**

Federally listed or threatened species that may occur in the adjacent Guemes Bay area include the Puget Sound Chinook salmon, Puget Sound Steelhead, Coastal-Puget Sound Bull Trout, rockfish (bocaccio, canary, and yelloweye) and Southern Resident Killer Whale.

**c. Is the site part of a migration route? If so, explain.**

The Puget Sound area is part of the Pacific flyway. Birds that inhabit the area vary seasonally due to migration. Fidalgo Bay, west of the project area, also provides over-wintering areas for migratory waterfowl.

**d. Proposed measures to preserve or enhance wildlife, if any:**

No wildlife habitat will be disturbed as part of this project and as a result, there are no proposed measures to preserve or enhance wildlife as part of this project.

**6. Energy and natural resources**



- a. **What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.**

Both electrical and fossil fuel sources will be required to operate construction equipment at the Site.

- b. **Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.**

The project will not affect potential use of solar energy on adjacent properties.

- c. **What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:**

None are proposed.

## 7. Environmental health

- a. **Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, which could occur as a result of this proposal? If so, describe.**

Potential discharges to stormwater or surface waters during the cleanup include accidental spills or leakage of petroleum products from construction equipment used during the project. The likelihood of a spill is low. In the event of a potential spill the effects would be minimized and mitigated through implementation of an on-site SPCC plan and response strategy that will be prepared by the construction Contractor. These spill response materials will be available for use during site construction. The contractor will be required to prepare a health and safety plan for work in areas where it is expected that contaminated soils may be encountered.

- 1) **Describe any known or possible contamination at the site from present or past uses.**

Historical use of the Site has resulted in contaminated soil and groundwater at the Site. Based on environmental investigations completed, elevated concentrations of metals in soil at the Site exceed concentrations protective of human health and the environment. The object of the project is to remove source materials for this contamination.

- 2) **Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.**

No known hazardous chemicals/conditions that might affect project development and design exist.

- 3) **Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.**



Potential discharges during construction include accidental spills or leakage of petroleum products from construction equipment used during the project. Potential discharges after the project is completed could include accidental spills of fuels from Port and tenant activities. However, the Port's strict enforcement of BMPs and policies and procedures that focus on preventing pollution from work and tenant activities minimizes these types of risks.

**4) Describe special emergency services that might be required.**

No special emergency service requirements are anticipated.

**5) Proposed measures to reduce or control environmental health hazards, if any:**

Implementation of a contractor SPCC plan and BMPs will minimize risks of accidental spills during construction. The Contractor(s) will be required to prepare and implement a health and safety plan for work associated with site cleanup. Within contaminated areas, workers will be required to have current HAZMAT handling training and equipment.

**b. Noise**

**1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

Existing noise from the surrounding area will not affect the project.

**2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Noise associated with a variety of construction equipment will occur. This could include truck engines, generators and other small engines, excavators, backhoes, and other heavy equipment.

The majority of Site activities and associated noise will generally occur during daylight hours. It is expected that any noise generated by project development will not be significantly different than the noise generated in the active industrial shipyard.

**3) Proposed measures to reduce or control noise impacts, if any:**

Construction would occur during normal working hours (Monday through Friday, 7 AM to 10 PM). The project will comply with environmental noise standards set by the State of Washington, WAC 173-60, which establishes limits on the level and duration of noise crossing property boundaries. Temporary construction noise is exempt from state noise limits during daytime hours, per WAC 173-60-050(3)(a). Construction activities will be carried out in a manner consistent with the City Municipal Code and State environmental noise standards.

**8. Land and shoreline use**

**a. What is the current use of the site and adjacent properties?**





The Site is currently used as an industrial shipyard, repairing and building ships and vessels.

**b. Has the site been used for agriculture? If so, describe.**

No, the Site has never been used for working farmlands or working forest lands.

**c. Describe any structures on the site.**

There are two primary structures located at the Site. The buildings are currently used for light manufacturing and equipment storage.

**d. Will any structures be demolished? If so, what?**

No

**e. What is the current zoning classification of the site?**

City of Anacortes Zoning map classifies the area as "Manufacturing and Shipping"

**f. What is the current comprehensive plan designation of the site?**

The City of Anacortes 2016 Comprehensive Plan designates the Site as "Manufacturing and Shipping"

**g. If applicable, what is the current shoreline master program designation of the site?**

The current shoreline master program (2010) designates the site as "Urban Marine."

**h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.**

No.

**i. Approximately how many people would reside or work in the completed project?**

The current Site is within the leasehold of Dakota Creek Industries, which has more than 100 employees.

**j. Approximately how many people would the completed project displace?**

Not applicable.

**k. Proposed measures to avoid or reduce displacement impacts, if any:**

Not applicable.

**l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:**



The proposed cleanup action is consistent with the goals of the City of Anacortes Comprehensive Plan and would not interfere with existing or future uses in the area.

## 9. Housing

- a. **Approximately how many units would be provided, if any? Indicate whether high, middle, or low income housing.**

The project does not include provision of housing units.

- b. **Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low income housing.**

The project does not eliminate any existing housing units.

- c. **Proposed measures to reduce or control housing impacts, if any:**

Not applicable.

## 10. Aesthetics

- a. **What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?**

No structures are proposed.

- b. **What views in the immediate vicinity would be altered or obstructed?**

Views in the immediate vicinity will not be altered or obstructed by the completed project.

- c. **Proposed measures to reduce or control aesthetic impacts, if any:**

None are proposed.

## 11. Light and glare

- a. **What type of light or glare will the proposal produce? What time of day would it mainly occur?**

No lighting is proposed.

- b. **Could light or glare from the finished project be a safety hazard or interfere with views?**

No.

- c. **What existing off-site sources of light or glare may affect your proposal?**

None.



**d. Proposed measures to reduce or control light and glare impacts, if any:**

None are proposed.

**12. Recreation**

**a. What designated and informal recreational opportunities are in the immediate vicinity?**

None.

**b. Would the proposed project displace any existing recreational uses? If so, describe.**

There are no recreation uses at the Site; the Site is an active industrial shipyard.

**c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:**

None are proposed.

**13. Historic and cultural preservation**

**a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.**

A cultural resources assessment was completed for the Site and identified two known historic places or objects located near the Site but several hundred feet from the area of proposed action (Lenz 2021).

**b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.**

Based on previous excavations and cultural resources investigations, two sites 45SK410 and 45SK411 were identified. These sites consist of the remains of an historic shipway and a shell midden with industrial components.

Although the Site has been subject to development and filling, it is possible that the project area could contain prehistoric archeological deposits beneath the areas of historic fill such as materials associated with occupation, shellfish gathering, fishing and other activities.

**c. Proposed measures to reduce or control impacts, if any:**

In the unlikely event of an inadvertent discovery of archeologic deposits, work will be immediately halted, and the Port will work with Washington State Department of Archaeology and Historic Preservation (DAHP) and local Tribes until appropriate consultation and/or investigation have been carried out. The project will operate under an inadvertent discovery plan for archaeological and cultural resources that outlines the steps to take in case of inadvertent discovery.

**14. Transportation**



- a. **Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.**

The Site is located north of 4<sup>th</sup> Street north of downtown Anacortes. South of the project site on the east side of downtown Anacortes is Q-Avenue, which serves as a north-south truck route to State Route (SR) 20 through the main commercial area of town.

- b. **Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?**

The Site is not directly served by public transit with the nearest station 0.25 miles away at 6<sup>th</sup> Street at City Hall which is served by Route 409 and 410. Route 409 runs west to the Guemes Ferry and then south to the Island Hospital and John Storvik Park near 32<sup>nd</sup> street before running north through downtown Anacortes. Route 410 makes a loop through Anacortes and provides service between the Anacortes Ferry Terminal and the March's Point Park & Ride lot.

- c. **How many parking spaces would the completed project have? How many would the project eliminate?**

There are no proposed long-term changes to existing parking, and no parking spaces will be eliminated.

- d. **Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).**

No new roads will be required, nor will the project affect the public right of way.

- e. **Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

The project is in the immediate vicinity of Port of Anacortes Pier 1 and Pier 2 terminals and the southern shoreline area of Guemes Channel. Construction work will be completed to minimize disturbance of existing operations at the Port of Anacortes Marine Terminal.

- f. **How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.**

Excavated materials and clean backfill will be transported to and from the Site in dump trucks. It is expected that there will be up to 10 trips per day during the active period of excavation/backfill. Construction workers may also travel to and from the Site, and this may generate an estimated 6 to 10 vehicle trips per day to the Site vicinity.

- g. **Proposed measures to reduce or control transportation impacts, if any:**

Measures to reduce or control transportation impacts are not proposed. The truck and vehicle traffic are within the existing capacity of adjacent roadways and is not expected to have any impact on existing levels of service.

## 15. Public services



- a. **Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.**

The project will not increase demand for public services.

- b. **Proposed measures to reduce or control direct impacts on public services, if any.**

Not applicable.

**16. Utilities**

- a. **Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.**

- b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

Electrical, gas, and water utilities may be encountered during excavation. Remediation and construction activities will be coordinated with the appropriate utility providers.

Utilities and providers at the Site are as follows:

Electricity	Puget Sound Energy
Natural gas	Cascade Natural Gas
City of Anacortes	Water, Sewer, Refuse Service

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

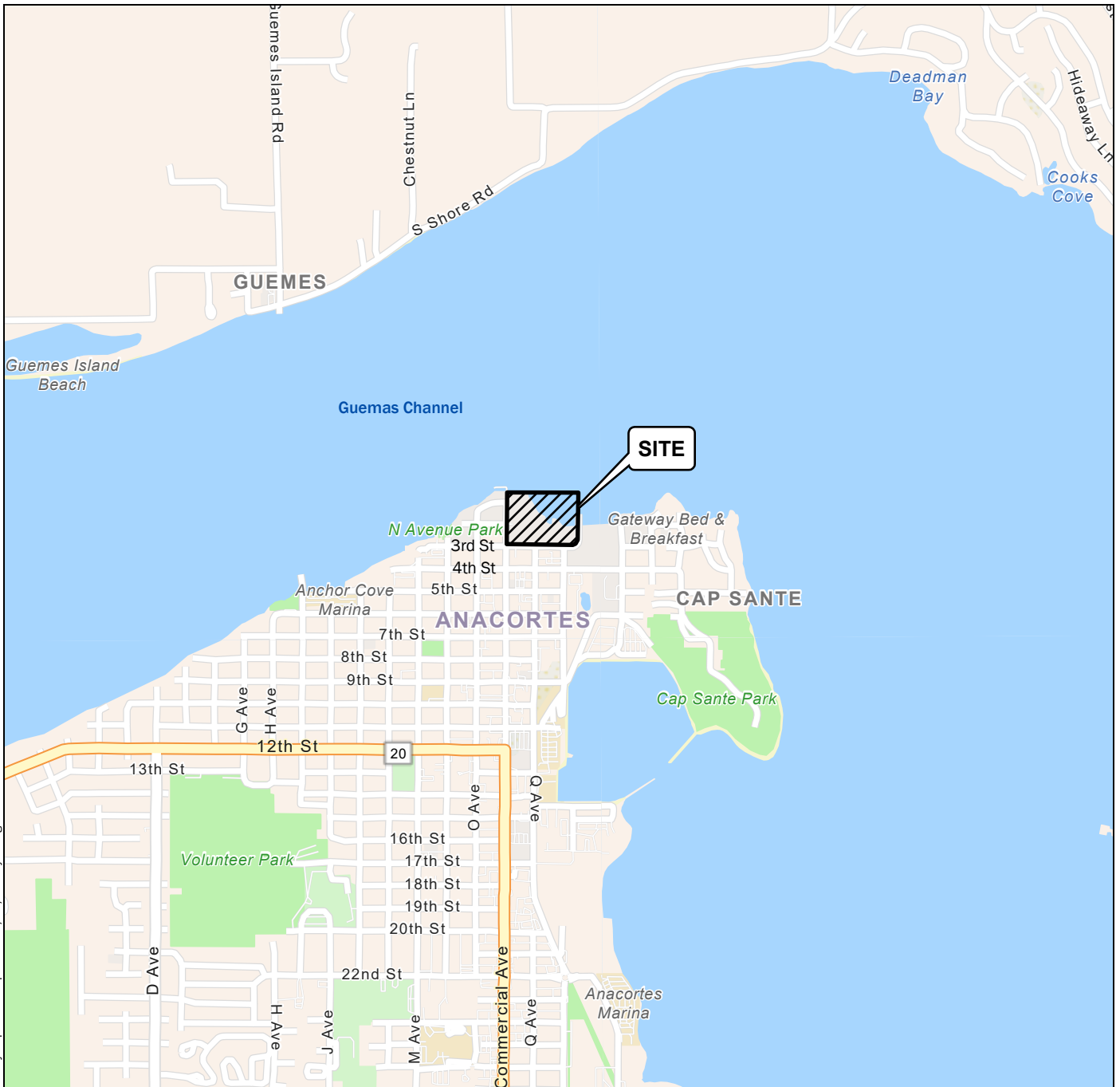
Signature: Daniel C. Warra

Name of Signee: Daniel C. Warra

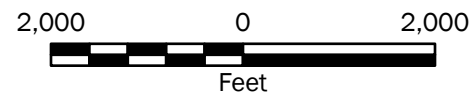
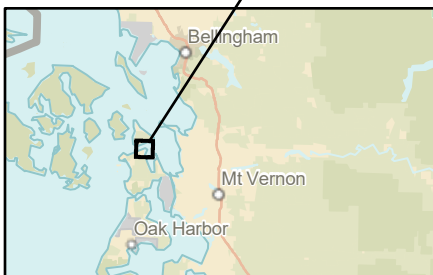
Position and Agency/Organization: Executive Director, Port of Anacortes

Date Submitted: June 17, 2021





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**Vicinity Map**

Port of Anacortes - Dakota Creek Industries  
Anacortes, Washington



**Figure 1.1**

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

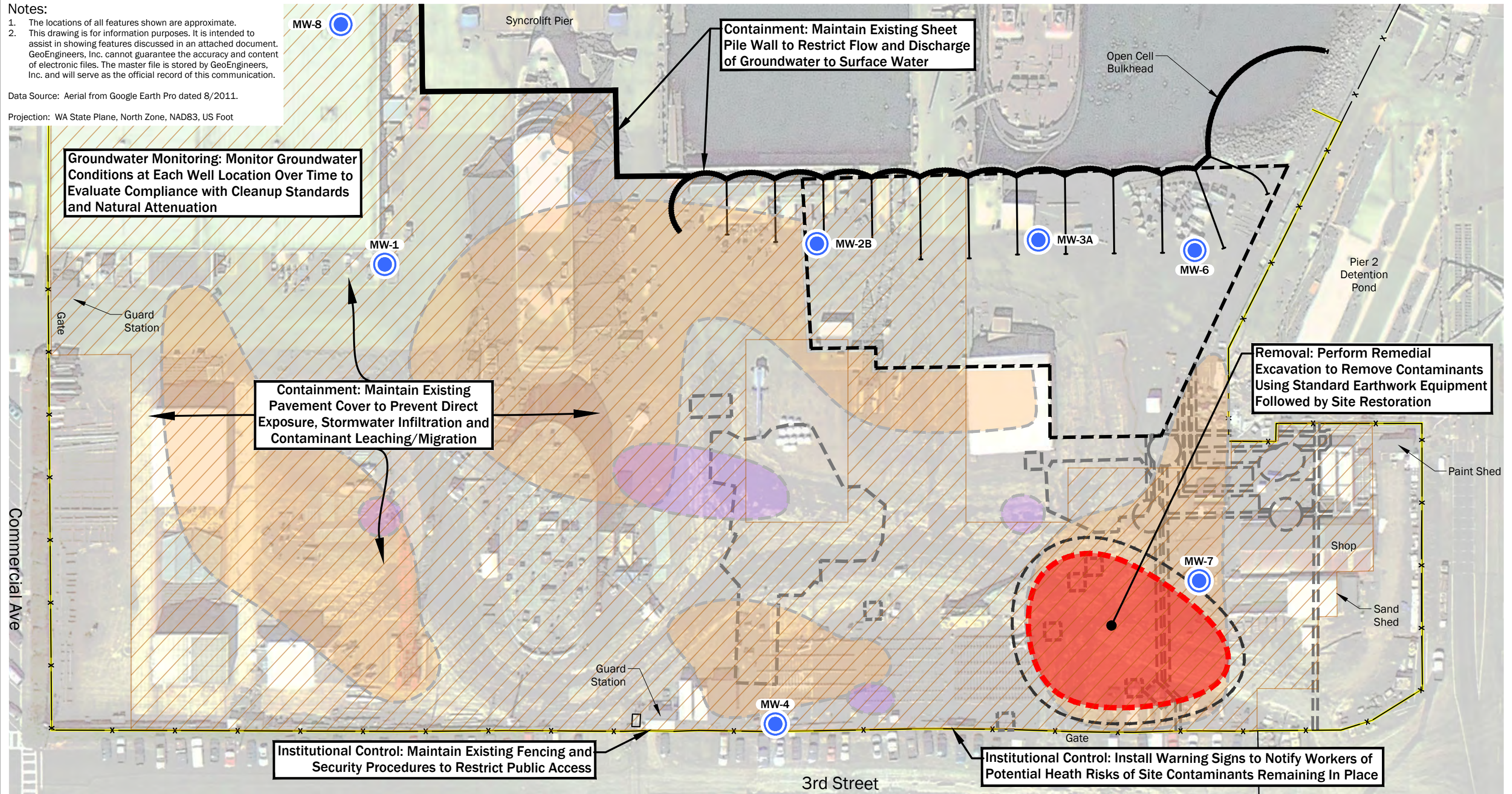
Data Source: ESRI

Projection: NAD 1983 UTM Zone 10N

**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 8/2011.

Projection: WA State Plane, North Zone, NAD83, US Foot



**Groundwater Monitoring: Monitor Groundwater Conditions at Each Well Location Over Time to Evaluate Compliance with Cleanup Standards and Natural Attenuation**

**Containment: Maintain Existing Sheet Pile Wall to Restrict Flow and Discharge of Groundwater to Surface Water**

**Containment: Maintain Existing Pavement Cover to Prevent Direct Exposure, Stormwater Infiltration and Contaminant Leaching/Migration**

**Removal: Perform Remedial Excavation to Remove Contaminants Using Standard Earthwork Equipment Followed by Site Restoration**

**Institutional Control: Maintain Existing Fencing and Security Procedures to Restrict Public Access**

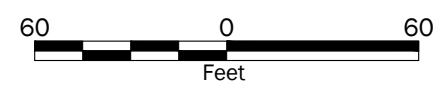
**Institutional Control: Install Warning Signs to Notify Workers of Potential Health Risks of Site Contaminants Remaining In Place**

**Legend**

- Dakota Creek Industries (DCI) Property Boundary
- Previous Upland Soil Excavation and Backfill Area (See Figure 2.4)
- Previous Marine Area Dredge and Backfill Area (See Figure 2.2)
- Existing Bulkhead
- Existing Fence
- Existing Asphalt/Concrete Pavement

- Area in Which Metals (Arsenic and/or Nickel) in Soil Exceed The Preliminary Cleanup Level
- Area in Which Total cPAH TEQ in Soil Exceed The Preliminary Cleanup Level
- Contaminant Source Area - Area in Which Metals (Arsenic and/or Nickel) Exceed Three Times the Preliminary Soil Cleanup Level
- Soil Removal Area

- Proposed New Asphalt Pavement
- Proposed Compliance Groundwater Monitoring Well Location
- cPAHs = carcinogenic aromatic hydrocarbons
- TEQ = toxic equivalency



**Selected Cleanup Action Alternative (Alternative 2 - Partial Source Removal)**

Dakota Creek Industries  
 Anacortes, Washington

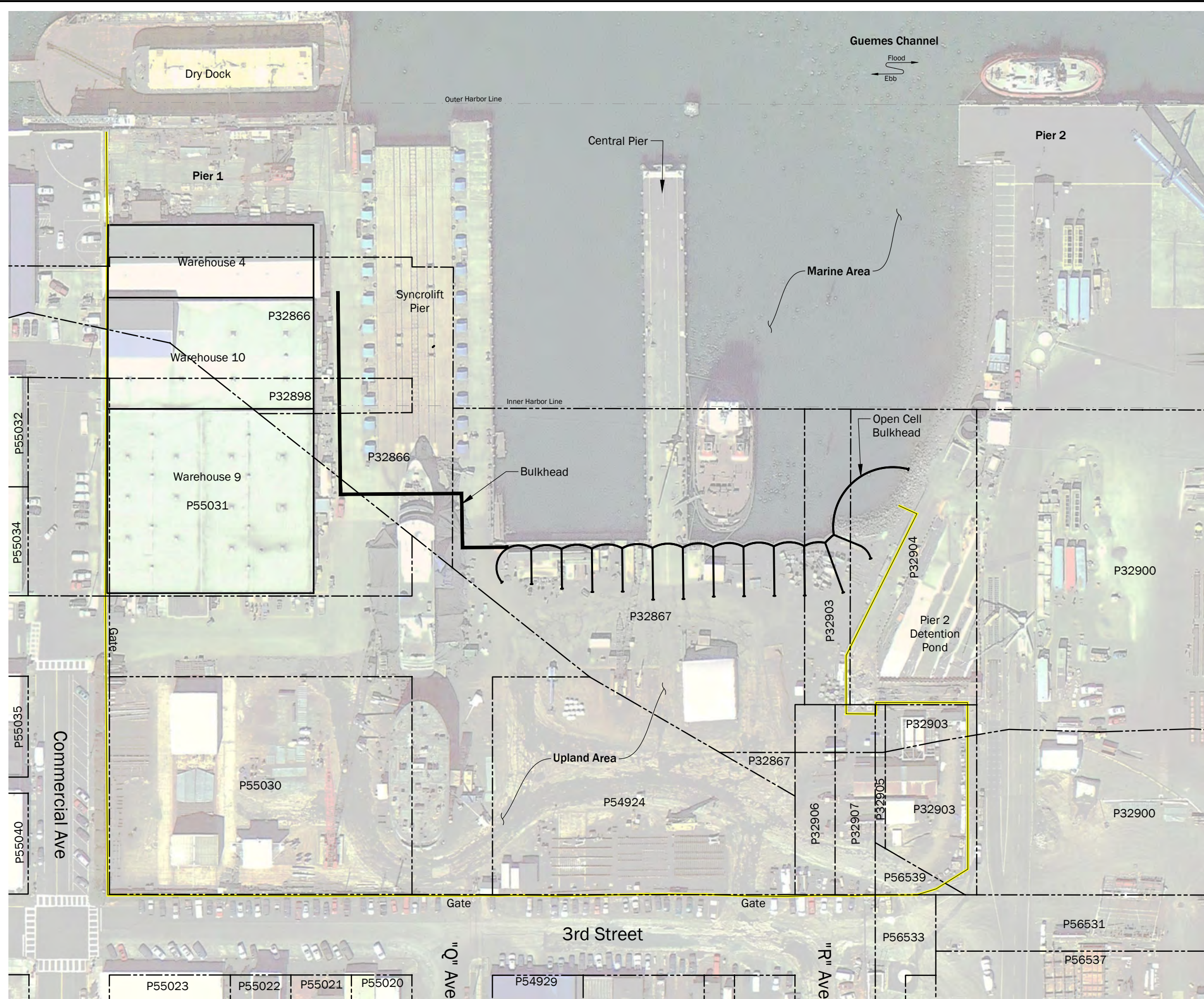


Figure 4.2

P:\5147006\CAD\14\Draft Cleanup Action Plan\514700614\_F04.2\_Cleanup Action Alt 2.dwg;TAB:F04.2 Date Exported: 05/07/21 - 17:29 by hmara



P:\5147006\CAD\14\Draft Cleanup Action Plan\514700614\_F01.2\_Parcel Map.dwg TAB:F01.2 Date Exported: 05/06/21 - 23:40 by hmara



**Legend**

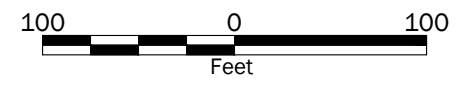
- Dakota Creek Industries (DCI) Property Boundary
- Skagit County Parcel Boundary and Number

**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 8/2011.

Projection: WA State Plane, North Zone, NAD83, US Foot



<b>Parcel Map</b>	
Dakota Creek Industries Anacortes, Washington	
	<b>Figure 1.2</b>



## STATE ENVIRONMENTAL POLICY ACT NOTICE OF DETERMINATION OF NON-SIGNIFICANCE (DNS)

---

**Project Name:** Dakota Creek Industries Cleanup Site

**Location:** Port of Anacortes – The proposed project site is located at 115 Q Avenue, Anacortes, WA. The project will occur within a number of parcels including: P32867, P32906, P32907, and P54924.

**Proponent:** Port of Anacortes

**Description of Proposal:** The Port of Anacortes (Port) proposes to implement cleanup of approximately 13,500 square feet in the upland property on the Dakota Creek Industries site (Site). The cleanup is located along the historic shoreline of Guemes Channel and has been used for marine and industrial activities since 1879. Elevated levels of arsenic and nickel (three times the proposed soil cleanup level) have been identified in soil and groundwater on the Site and are the result of historic fill and past uses of the property. The Site is currently surfaced in asphalt with two existing buildings. The Port leases the property to Dakota Creek Industries, who operates an industrial shipyard.

The Site has been investigated under an Agreed Order with Ecology. The Port, in cooperation with Ecology has prepared a draft Cleanup Action Plan. Cleanup of the Site is expected to last for approximately eight to ten weeks, and after the project is complete, the Site will be returned to the existing use as a shipyard. The project elements include:

- Excavation and removal of approximately 6,500 cubic yards (CY) of contaminated soil contaminated with nickel and arsenic and transport excavated material off site for disposal at a permitted facility.
- Dewatering and treatment of water from the excavation during the cleanup action. Treated water will be discharged to the Publicly Owned Treatment Works (POTW) facility with approval from the City of Anacortes.
- Backfilling and compaction of overburden and/or clean imported fill and repaving the surface with asphalt to match the existing grade.
- Monitoring Site surfaces and groundwater on a long-term basis to evaluate the cleanup action effectiveness. In some areas, Site surfaces act to contain contamination that will not be removed by the excavation activities. An additional monitoring well will be installed as part of the project.
- Implement institutional controls in the form of an environmental covenant to protect workers at the Site and to protect the final remedial action.

This cleanup action will meet the requirements of WAC 173-340-360(2)(a) by protecting human health and the environment. It will ensure compliance with state cleanup levels and provide monitoring to ensure long term compliance with the regulations.

**Lead Agency:** The lead agency under the State Environmental Policy Act is the Port of Anacortes.

**Determination:** As a lead agency, the Port of Anacortes has determined that this proposal will not have a probable significant adverse impact on the environment; a determination of non-significance (DNS) does not require an environmental impact statement (EIS) under RCW 43.21C.030(2)(c). This determination assumes compliance with federal and state law as well as City of Anacortes ordinances related to general environmental protection. This decision was made after review of a completed SEPA environmental checklist and other supporting documents on file with the lead agency. This information is available to the public on request (call 360-299-1810 to request a copy by mail or email) or at the Port's administrative offices at 100 Commercial Avenue, Anacortes, WA 98221 (pick up by appointment only to comply with Port COVID-19 Policies and Procedures; <https://www.portofanacortes.com/covid>). The SEPA Checklist and complete DNS can also be reviewed on the Port's website: [www.portofanacortes.com](http://www.portofanacortes.com).

Note: Issuance of this threshold determination does not constitute approval of permits. This proposal will be reviewed for compliance with all applicable Federal, State and City of Anacortes regulations.

**Comment Period:**

Kevin Anderson, Environmental Specialist  
Port of Anacortes  
100 Commercial Avenue  
Anacortes, WA 98221

Comments may also be submitted to the Port via (a) e-mail to [kevin.anderson@portofanacortes.com](mailto:kevin.anderson@portofanacortes.com) or (b) fax to (360) 293-9608. Comments will not otherwise be accepted by telephone or personal conversation.

**Publication Date:** 6/19/2021

**Signed and dated this 17 day of June, 2021:**



\_\_\_\_\_  
Daniel C. Worra  
Port of Anacortes SEPA Responsible Official



Planning, Community, & Economic Development Department  
904 6<sup>th</sup> Street - P.O. Box 547 - Anacortes, WA 98221  
360-299-1984 - [pced@cityofanacortes.org](mailto:pced@cityofanacortes.org)

January 17, 2023

RE: PRE-2022-0050 – January 17<sup>th</sup> @ 1:30pm – Port of Anacortes DCI Cleanup – 115 Q Avenue – P32907, P32906 & P54924

*The comments below are provided after review by city staff of the materials provided in your submittal. City staff strive to provide a comprehensive review based on the information you provided and the codes and standards in place at the time of the review. Please note that these comments are preliminary in nature and are subject to change based on changed circumstances, changes in the proposal, changes in City policies and development regulations, and/or new information.*

#### **Project Description**

The Port of Anacortes is involved with a Model Toxics Control Act (MTCA) cleanup project at the Dakota Creek Industries (DCI) site. This project will remove and dispose of ~6,500CY of soils with elevated levels of nickel and arsenic.


#### **Owner/Applicant**

The Port of Anacortes, Attn: Kevin Anderson – [kevin.anderson@portofanacortes.com](mailto:kevin.anderson@portofanacortes.com) – 360.770.5194

#### **City Department Comments** (received as of January 17, 2023):

<b>Department</b>	<b>Comments</b>
<b>Public Works – Engineering</b> Steve Lange, Senior Engineering Tech	<i>The City has a 36-inch CPEP SD outfall in the excavation area. We want to have the pipe inspected when and if it is uncovered.</i>
<b>Public Works – Stormwater</b> Diane Hennebert, Stormwater Program Manager	<i>Provided the project follows the proposed TESC measures in the application packet (CB protection, straw wattles on the perimeter, containing the temporary stockpiles on and under plastic sheeting, track-out prevention, etc.) I see no issues from my vantage point.</i>
<b>Planning, Community, Economic Development – Planning Dept.</b> Grace Pollard, Senior Planner	<i>Exempt from procedural requirements and permit approvals from the City of Anacortes (RCW 70A305.090), the Port must however ensure compliance with the substantive requirements of local provisions and must provide an opportunity for comment by the public and by the state agencies and local governments that would otherwise implement the laws. Public comment opportunity was done with the Ecology process. The following comments from Planning are in regard to the most applicable policies of the Shoreline Master Program and the SEPA Checklist.</i>

Planning, Community & Economic Development Comments

Applicable Code Provisions	Staff Comments
<b>AMC DIVISION 4: ZONING AND LAND USE</b>	
<p>1. <a href="#">AMC 19.40 Zones</a></p>	<p>The subject property is zoned Manufacturing and Shipping (MS) and Urban Maritime within the Shoreline Jurisdiction.</p> 
<p>2. <a href="#">AMC 19.41.050 Uses</a></p>	<p>“Water-Oriented Industrial Uses” is a permitted use in the MS zone and Urban Maritime.</p>
<p>3. <b>Public Right-of-Way</b></p>	<p>The original platted 3<sup>rd</sup> Street south of the site area was vacated by the City to the Port in 2012. There is no need to contact the city if contaminated soils have leached beyond the plated right-of-way, as this is Port property, and it is expected cleanup will extend where needed.</p>
<b>SMP NOTES</b>	
<ul style="list-style-type: none"> <li>• 5.11 Urban Maritime. <ul style="list-style-type: none"> <li>○ Purpose. The purpose of the Urban Maritime designation is to preserve a variety of water-dependent, water-oriented, and water-related public, commercial, and industrial uses such as those associated with the Port of Anacortes.</li> <li>○ Designation Criteria. The Urban Maritime designation is appropriate for high intensity urban uses that are currently zoned Manufacturing/Shipping.</li> </ul> </li> <li>• Chapter 6: Environmental Protection General Regulations <ul style="list-style-type: none"> <li>○ Protect the environment through implementation of the Shoreline Master Program including the use of the AMRRCM mitigation sequence (Avoid, Minimize, Rectify, Reduce, Compensate, Monitor) (WAC 173-26-201(2)(e)(i)).</li> <li>○ An erosion and sedimentation control plan shall be created and must conform to the City of Anacortes’ Engineering Design Standards and shall at a minimum, utilize Best Management Practices (BMPs) to minimize any increase in surface runoff and to protect the quality and quantity of surface and ground water.</li> <li>○ Noise emanating from the activity shall be muffled so as to not to interfere with the designated use of adjoining properties. (The Central Business District is located one</li> </ul> </li> </ul>	

block to the south and one block to the west.) This determination shall take into consideration ambient noise levels, intermittent beat, frequency, and shrillness. Shoreline activities shall comply with the maximum permissible noise levels and time limits set forth in Anacortes Municipal Code Chapter 17.54.

- 8.12 Scientific, Cultural, and Educational Facilities
  - If, in the course of construction on shorelines, items of possible archeological significance are uncovered, the contractor shall notify the City of the find, and stop work which could damage such items, or protect the items from damage, until appropriate evaluations and actions can be carried out.

#### SEPA NOTES

- Air. Incorporate measures to reduce or control emissions or other impacts to the air during the soil remediation process including but not limited to dust and truck traffic.
- Water. Incorporate measures to protect the marine waters from runoff and contamination.
- Environmental Health.
- Transportation. Trucks must operate on and within designated truck routes per AMC 10.24. How many truck trips will be needed to haul ~6,500CY of contaminated soil? How many truck trips per day? Are there any measures to reduce or control transportation impacts?

#### REQUESTS

1. Obtain a demo permit.
2. Obtain a clear and grading permit.
3. Obtain a National Pollutant Discharge Elimination System (NPDES) permit if necessary.

Please contact me at 360-588-8231 or [gracep@cityofanacortes.org](mailto:gracep@cityofanacortes.org) if you have any questions.

Sincerely,

**Grace Pollard**  
*Senior Planner*

**APPENDIX B**  
**Monitoring Well Decommissioning Records**

### Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

- Construction  
 Decommission ⇨ Original NOI No. RE07059

Ecology Well ID Tag No. BHL 197

Site Well Name MW-7

Consulting Firm Geo Engineers

Was a variance approved for this well/boring?  Yes  No

If yes, what was the variance for? \_\_\_\_\_

Notice of Intent No. AE 78 550

Type of Well:

- Resource Protection Well  Injection Point  
 Remediation Well  Grounding Well  
 Geotechnical Soil Boring  Ground Source Heat Pump  
 Environmental Boring  Other \_\_\_\_\_  
 ⇨  Soil-  Vapor-  Water-sampling

Property Owner Port of Anacortes

Well Street Address 219 R Street

City Anacortes County Skaagit

Tax Parcel No. P56539

Location (see instructions): WWM  or EWM

NW 1/4-1/4 NW 1/4, Section 19 Town 35N Range 2E

Latitude (Example: 47.12345) 48.520308

Longitude (Example: -120.12345) -122.609418

(WGS 84 Coordinate System)

Borehole diameter \_\_\_\_\_ inches Casing diameter 2 inches

Static water level 7' ft below top of casing Date 6/21/2023

Above-ground completion with bollards  Flush monument

⇨ Stick-up of top of well casing \_\_\_\_\_ ft above ground surface

Start Date 6/21/2023 Completed Date 6/21/2023

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

Driller  Trainee  Engineer

Name (Print Last, First Name) Rosenberg Pete

Driller/Engineer/Trainee Signature Pete Rosenberg

License No. 2931

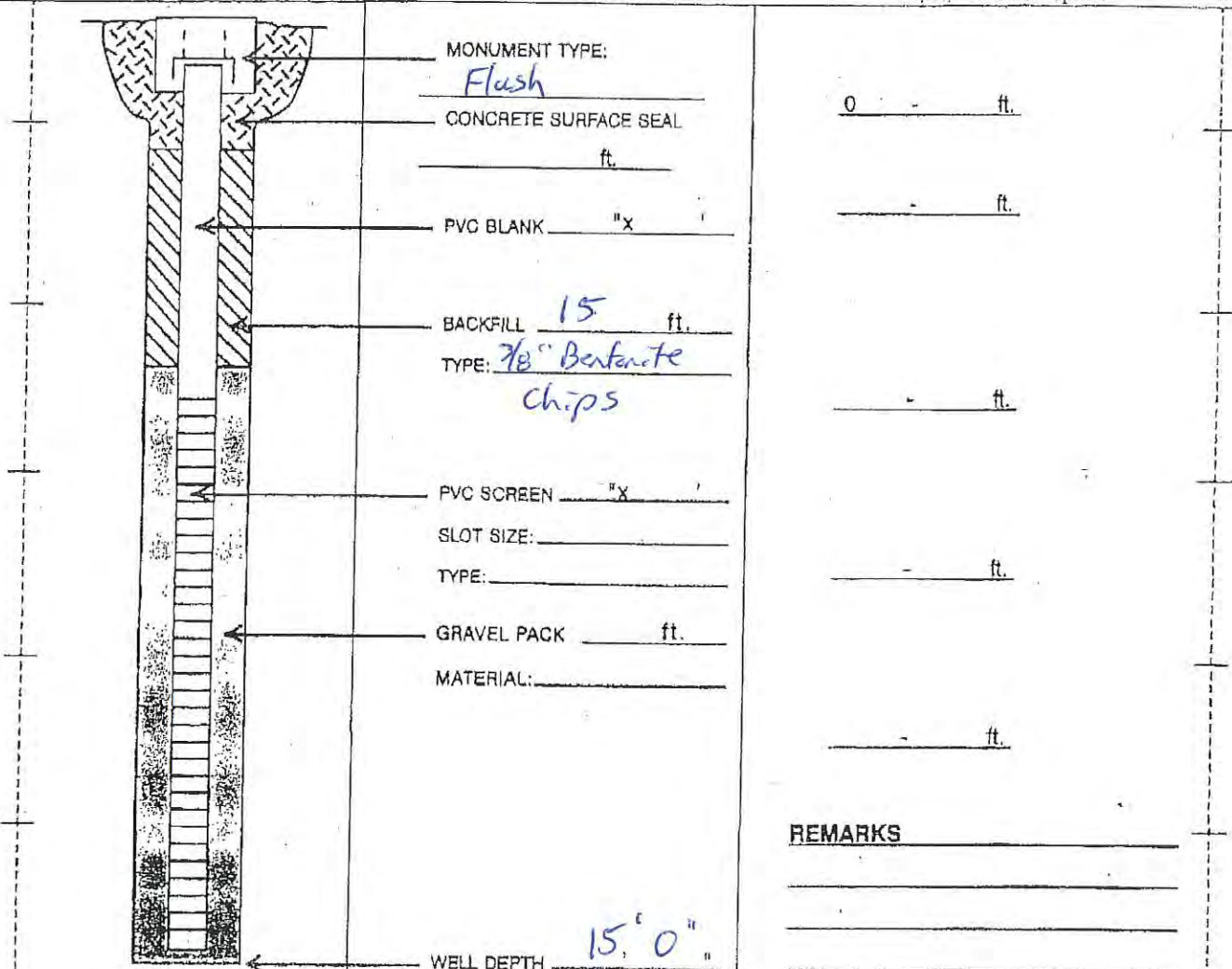
Company Name Hold

If trainee box is checked, sponsor's license number: \_\_\_\_\_  
 Sponsor's signature \_\_\_\_\_

Construction/Design

Well Data

Formation Description



MONUMENT TYPE: Flush  
 CONCRETE SURFACE SEAL \_\_\_\_\_ ft.  
 PVC BLANK \_\_\_\_\_ "x"  
 BACKFILL 15 ft.  
 TYPE: 7/8" Benferite chips  
 PVC SCREEN \_\_\_\_\_ "x"  
 SLOT SIZE: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 GRAVEL PACK \_\_\_\_\_ ft.  
 MATERIAL: \_\_\_\_\_

0 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WELL DEPTH 15' 0"



**APPENDIX C**  
**Laboratory Reports for Waste Characterization Samples  
and Landfill Disposal Approval**



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

June 27, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2306-320

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on June 26, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: June 27, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-320  
Project: 5147-006-17

### Case Narrative

Samples were collected on June 26, 2023 and received by the laboratory on June 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Total Metals EPA 6010D/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Mercury are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 93%.

The Matrix Spike/Matrix Spike Duplicate RPD for Mercury is outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 27, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-320  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WCS-1	06-320-01	Soil	6-26-23	6-26-23	
WCS-2	06-320-02	Soil	6-26-23	6-26-23	
WCS-3	06-320-03	Soil	6-26-23	6-26-23	



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D/7471B**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>WCS-1</b>					
Laboratory ID:	06-320-01					
Arsenic	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Barium	<b>54</b>	2.6	EPA 6010D	6-27-23	6-27-23	
Cadmium	<b>ND</b>	0.52	EPA 6010D	6-27-23	6-27-23	
Chromium	<b>38</b>	0.52	EPA 6010D	6-27-23	6-27-23	
Lead	<b>ND</b>	5.2	EPA 6010D	6-27-23	6-27-23	
Mercury	<b>ND</b>	0.26	EPA 7471B	6-27-23	6-27-23	
Selenium	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Silver	<b>ND</b>	1.0	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>WCS-2</b>					
Laboratory ID:	06-320-02					
Arsenic	<b>29</b>	11	EPA 6010D	6-27-23	6-27-23	
Barium	<b>93</b>	2.6	EPA 6010D	6-27-23	6-27-23	
Cadmium	<b>0.62</b>	0.53	EPA 6010D	6-27-23	6-27-23	
Chromium	<b>34</b>	0.53	EPA 6010D	6-27-23	6-27-23	
Lead	<b>440</b>	5.3	EPA 6010D	6-27-23	6-27-23	
Mercury	<b>2.1</b>	1.1	EPA 7471B	6-27-23	6-27-23	
Selenium	<b>ND</b>	11	EPA 6010D	6-27-23	6-27-23	
Silver	<b>ND</b>	1.1	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>WCS-3</b>					
Laboratory ID:	06-320-03					
Arsenic	<b>ND</b>	12	EPA 6010D	6-27-23	6-27-23	
Barium	<b>73</b>	2.9	EPA 6010D	6-27-23	6-27-23	
Cadmium	<b>ND</b>	0.58	EPA 6010D	6-27-23	6-27-23	
Chromium	<b>39</b>	0.58	EPA 6010D	6-27-23	6-27-23	
Lead	<b>440</b>	5.8	EPA 6010D	6-27-23	6-27-23	
Mercury	<b>1.2</b>	1.2	EPA 7471B	6-27-23	6-27-23	
Selenium	<b>ND</b>	12	EPA 6010D	6-27-23	6-27-23	
Silver	<b>ND</b>	1.2	EPA 6010D	6-27-23	6-27-23	



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320  
 Project: 5147-006-17

### VOLATILE ORGANICS EPA 8260D

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>WCS-1</b>					
Laboratory ID:	06-320-01					
Benzene	ND	0.0011	EPA 8260D	6-27-23	6-27-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	81	66-133				
<i>Toluene-d8</i>	92	78-128				
<i>4-Bromofluorobenzene</i>	93	71-130				
<b>Client ID:</b>	<b>WCS-2</b>					
Laboratory ID:	06-320-02					
Benzene	ND	0.00096	EPA 8260D	6-27-23	6-27-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	66-133				
<i>Toluene-d8</i>	94	78-128				
<i>4-Bromofluorobenzene</i>	97	71-130				
<b>Client ID:</b>	<b>WCS-3</b>					
Laboratory ID:	06-320-03					
Benzene	ND	0.00089	EPA 8260D	6-27-23	6-27-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	88	66-133				
<i>Toluene-d8</i>	93	78-128				
<i>4-Bromofluorobenzene</i>	94	71-130				



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D/7471B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0627SM1					
Arsenic	ND	10	EPA 6010D	6-27-23	6-27-23	
Barium	ND	2.5	EPA 6010D	6-27-23	6-27-23	
Cadmium	ND	0.50	EPA 6010D	6-27-23	6-27-23	
Chromium	ND	0.50	EPA 6010D	6-27-23	6-27-23	
Lead	ND	5.0	EPA 6010D	6-27-23	6-27-23	
Selenium	ND	10	EPA 6010D	6-27-23	6-27-23	
Silver	ND	1.0	EPA 6010D	6-27-23	6-27-23	

Laboratory ID:	MB0627S1					
Mercury	ND	0.050	EPA 7471B	6-27-23	6-27-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	06-292-02							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	53.2	64.4	NA	NA	NA	19	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	19.4	17.2	NA	NA	NA	12	20	
Lead	26.1	30.2	NA	NA	NA	14	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	06-292-02							
Mercury	2.00	1.79	NA	NA	NA	11	20	

**MATRIX SPIKES**

Laboratory ID:	06-292-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	96.4	97.2	100	100	ND	96	97	75-125	1	20
Barium	154	152	100	100	53.2	100	98	75-125	1	20
Cadmium	46.9	46.8	50.0	50.0	ND	94	94	75-125	0	20
Chromium	115	115	100	100	19.4	96	95	75-125	1	20
Lead	270	268	250	250	26.1	98	97	75-125	1	20
Selenium	91.3	93.5	100	100	ND	91	94	75-125	2	20
Silver	20.5	20.5	25.0	25.0	ND	82	82	75-125	0	20

Laboratory ID:	06-292-02										
Mercury	3.06	2.06	0.500	0.500	2.00	212	12	80-120	39	20	V,W



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D/7471B  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV062723B	1.00	0.971	2.9	+/- 10%
Barium	ICV062723B	1.00	1.03	-3.0	+/- 10%
Cadmium	ICV062723B	1.00	0.976	2.4	+/- 10%
Chromium	ICV062723B	1.00	0.995	0.50	+/- 10%
Lead	ICV062723B	1.00	1.02	-2.0	+/- 10%
Mercury	ICV062723I	0.00500	0.00516	-3.2	+/- 10%
Selenium	ICV062723B	1.00	1.00	0	+/- 10%
Silver	ICV062723B	1.00	1.02	-2.0	+/- 10%
Arsenic	LLV062723B	0.0500	0.0484	3.2	+/- 20%
Barium	LLV062723B	0.0200	0.0209	-4.5	+/- 20%
Cadmium	LLV062723B	0.00500	0.00565	-13	+/- 20%
Chromium	LLV062723B	0.0100	0.0114	-14	+/- 20%
Lead	LLV062723B	0.100	0.105	-5.0	+/- 20%
Selenium	LLV062723B	0.0500	0.0569	-14	+/- 20%
Silver	LLV062723B	0.0100	0.0112	-12	+/- 20%
Arsenic	CCV1062723B	5.00	5.03	-0.60	+/- 10%
Barium	CCV1062723B	2.00	1.99	0.50	+/- 10%
Cadmium	CCV1062723B	0.500	0.517	-3.4	+/- 10%
Chromium	CCV1062723B	1.00	1.01	-1.0	+/- 10%
Lead	CCV1062723B	10.0	9.98	0.20	+/- 10%
Mercury	CCV1062723B	0.00500	0.00494	1.2	+/- 20%
Selenium	CCV1062723B	5.00	5.20	-4.0	+/- 10%
Silver	CCV1062723B	1.00	0.984	1.6	+/- 10%
Arsenic	CCV2062723B	5.00	5.00	0	+/- 10%
Barium	CCV2062723B	2.00	1.99	0.50	+/- 10%
Cadmium	CCV2062723B	0.500	0.518	-3.6	+/- 10%
Chromium	CCV2062723B	1.00	1.02	-2.0	+/- 10%
Lead	CCV2062723B	10.0	10.0	0	+/- 10%
Mercury	CCV2062723I	0.00500	0.00485	3.0	+/- 20%
Selenium	CCV2062723B	5.00	5.23	-4.6	+/- 10%
Silver	CCV2062723B	1.00	0.987	1.3	+/- 10%





Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D/7471B  
 CONTINUING CALIBRATION SUMMARY**

<b>Analyte</b>	<b>Lab ID</b>	<b>True Value (ppm)</b>	<b>Calc. Value</b>	<b>Percent Difference</b>	<b>Control Limits</b>
Arsenic	CCV3062723B	5.00	4.96	0.80	+/- 10%
Barium	CCV3062723B	2.00	1.99	0.50	+/- 10%
Cadmium	CCV3062723B	0.500	0.517	-3.4	+/- 10%
Chromium	CCV3062723B	1.00	1.01	-1.0	+/- 10%
Lead	CCV3062723B	10.0	10.1	-1.0	+/- 10%
Mercury	CCV3061923I	0.00500	0.00480	4.0	+/- 20%
Selenium	CCV3062723B	5.00	5.20	-4.0	+/- 10%
Silver	CCV3062723B	1.00	0.983	1.7	+/- 10%



Date of Report: June 27, 2023  
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 Laboratory Reference: 2306-320  
 Project: 5147-006-17

**VOLATILE ORGANICS EPA 8260D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0627S1					
Benzene	ND	0.0010	EPA 8260D	6-27-23	6-27-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	66-133				
<i>Toluene-d8</i>	93	78-128				
<i>4-Bromofluorobenzene</i>	98	71-130				

<b>Analyte</b>	<b>Result</b>		<b>Spike Level</b>		<b>Percent Recovery</b>		<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0627S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	<b>0.0458</b>	<b>0.0460</b>	0.0500	0.0500	92	92	81-122	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					84	84	66-133			
<i>Toluene-d8</i>					94	91	78-128			
<i>4-Bromofluorobenzene</i>					101	99	71-130			



Date of Report: June 27, 2023  
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Laboratory Reference: 2306-320  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>WCS-1</b>	06-320-01	<b>4</b>	6-26-23
<b>WCS-2</b>	06-320-02	<b>5</b>	6-26-23
<b>WCS-3</b>	06-320-03	<b>13</b>	6-26-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





**Onsite Environmental Inc.**  
Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
(in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number: **06-320**

Company: **GEOMINERS INC.**  
Project Number: **5147-006-17**  
Project Name: **PO4 - DCI CLEAN UP ACTION**  
Project Manager: **ARTHUR JSMI**  
Sampled by: **NATHAN SOLOMAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	WCS WGS-1	6/26/23	1230	SOIL	6
2	WCS WGS-2	6/26/23	1235	SOIL	6
3	WCS WGS-3	6/26/23	1240	SOIL	6

<input type="checkbox"/>	NWTPH-HCID	<input type="checkbox"/>	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	<input type="checkbox"/>	NWTPH-Gx	<input type="checkbox"/>	NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	<input type="checkbox"/>	Volatiles 8260	<input type="checkbox"/>	Halogenated Volatiles 8260	<input type="checkbox"/>	EDB EPA 8011 (Waters Only)	<input type="checkbox"/>	Semivolatiles 8270/SIM (with low-level PAHs)	<input type="checkbox"/>	PAHs 8270/SIM (low-level)	<input type="checkbox"/>	PCBs 8082	<input type="checkbox"/>	Organochlorine Pesticides 8081	<input type="checkbox"/>	Organophosphorus Pesticides 8270/SIM	<input type="checkbox"/>	Chlorinated Acid Herbicides 8151	<input type="checkbox"/>	Total RCRA Metals	<input type="checkbox"/>	Total MTCA Metals	<input type="checkbox"/>	TCLP Metals	<input type="checkbox"/>	HEM (oil and grease) 1664	<input type="checkbox"/>	BENZENE 8260	<input type="checkbox"/>	% Moisture
--------------------------	------------	--------------------------	--	--------------------------	----------	--------------------------	--	--------------------------	----------------	--------------------------	----------------------------	--------------------------	----------------------------	--------------------------	--	--------------------------	---------------------------	--------------------------	-----------	--------------------------	--------------------------------	--------------------------	--------------------------------------	--------------------------	----------------------------------	--------------------------	-------------------	--------------------------	-------------------	--------------------------	-------------	--------------------------	---------------------------	--------------------------	--------------	--------------------------	------------

Received/Date	Signature	Company	Date	Time	Comments/Special Instructions
Received		GEI	6/26/23	1743	ANALYZE AND REPORT BARIUM, CADMIUM, CHROMIUM, LEAD MERCURY, SELENIUM AND SILVER ARSENIC
Relinquished					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Sample/Cooler Receipt and Acceptance Checklist

Client: GET  
 Client Project Name/Number: 5147-006-17  
 OnSite Project Number: 06-320

Initiated by: MMV  
 Date Initiated: 6/26/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.2 Were the custody seals intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	Temperature:	<u>6</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	<input checked="" type="radio"/> Yes	<input type="radio"/> N/A			
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4	

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.8 Was method 5035A used?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	1	<input type="radio"/> N/A	1 2 3 4	

### Explain any discrepancies:

<u>2.4) # 1-3) WCS on labels</u>

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D/7471B
- Volatiles EPA 8260D

Total Metals  
EPA 6010D/7471B Data



Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger, Ruby Reagan, Alex Wilson

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\06 June 2023\1230627S1.wszf

Creation Date: 6/27/2023 11:59:31 AM

Comment:

RR 6/27/23

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	06/27/23 12:50:42 pm	0.00000	49	19.86			N/A
Standard #1 (0.05 ug/L)	STD	06/27/23 12:53:14 pm	0.05000	983	1.60	5.97%		N/A
Standard #2 (0.5 ug/L)	STD	06/27/23 12:55:46 pm	0.50000	9064	0.63	2.33%		N/A
Standard #3 (2.5 ug/L)	STD	06/27/23 12:58:18 pm	2.50000	44751	0.47	1.49%		N/A
Standard #4 (5.0 ug/L)	STD	06/27/23 01:00:50 pm	5.00000	89151	0.36	1.14%		N/A
Standard #5 (10.0 ug/L)	STD	06/27/23 01:04:14 pm	10.00000	175559	0.47	-0.38%		N/A

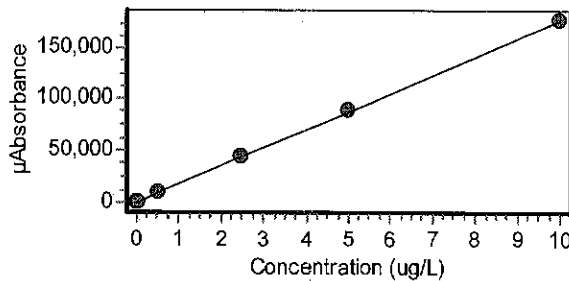
Calibration

Equation: Abs = 17618.783x + 49.048

R2: 0.99990 RSE: 3.86%

SEE: 806.2257

Flags:



ICV	ICV	06/27/23 01:08:36 pm	5.16280	91012	0.49			103.26
ICB	ICB	06/27/23 01:11:56 pm	-0.00150	23	29.98			N/A
CCV	CCV	06/27/23 01:14:29 pm	4.93660	87025	0.53			98.73
CCB	CCB	06/27/23 01:17:42 pm	-0.00055	39	204.98			N/A
MB0627S1	UNK	06/27/23 01:20:13 pm	-0.00230	9	29.55			N/A
SB0627S1	UNK	06/27/23 01:22:45 pm	4.67470	82412	0.40			N/A
06-320-02a	UNK	06/27/23 01:26:17 pm	18.93400	333645	0.39		O	N/A
06-320-02a D	UNK	06/27/23 01:31:09 pm	16.88500	297548	0.41		O	N/A
06-320-02a L	UNK	06/27/23 01:34:57 pm	3.98920	70335	0.48			N/A
06-320-02a MS	UNK	06/27/23 01:38:10 pm	27.15800	478547	0.40		O	N/A
06-320-02a MSD	UNK	06/27/23 01:42:38 pm	19.60000	345382	0.46		O	N/A
06-320-01a	UNK	06/27/23 01:48:23 pm	1.07830	19048	0.46			N/A
06-320-03a	UNK	06/27/23 01:50:55 pm	10.36400	182642	0.41		O	N/A
06-295-03	UNK	06/27/23 01:54:21 pm	0.00905	209	8.54			N/A
CCV	CCV	06/27/23 01:56:53 pm	4.85410	85572	0.70			97.08
CCB	CCB	06/27/23 02:00:03 pm	-0.00073	36	28.62			N/A
SB0627S1 20X	UNK	06/27/23 03:14:42 pm	0.23318	4157	0.68			N/A
06-320-02a 20X	UNK	06/27/23 03:17:14 pm	0.99950	17659	0.63			N/A
06-320-02a D 20X	UNK	06/27/23 03:19:47 pm	0.89314	15785	0.50			N/A
06-320-02a L 20X	UNK	06/27/23 03:22:19 pm	0.20744	3704	0.62			N/A
06-320-02a MS 20X	UNK	06/27/23 03:24:51 pm	1.53420	27080	0.25			N/A
06-320-02a MSD 20X	UNK	06/27/23 03:27:23 pm	1.03270	18243	0.62			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual Flags	% Recovery
06-320-03a 20X	UNK	06/27/23 03:29:56 pm	0.51737	9165	0.36		N/A
CCV	CCV	06/27/23 03:32:28 pm	4.79530	84537	0.35		95.91
CCB	CCB	06/27/23 03:35:43 pm	-0.00270	1	19.54		N/A



*KT 6/27/23*

### Summary

Worksheet Name	B230627A.esws	Created Date/Time (local)	6/27/2023 9:47:55 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	6/27/2023 4:47:55 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\05MAY21\B230627A.esws		

Notes

## Results

Solution Label	Ag (328.068 nm)	As (193.696 nm)	Ba (233.527 nm)	Cd (228.802 nm)	Cr (205.560 nm)	Pb (220.353 nm)	Se A (196.026 nm)
Blank	0.00 (ppb)	0.00 (ppb)	0.00 (ppb)	0.00 (ppb)	0.00 (ppb)	0.00 (ppb)	0.00 (ppb)
Optional Standard							
Standard 5	10.00 (ppb)	50.00 (ppb)	20.00 (ppb)	5.00 (ppb)	10.00 (ppb)	100.00 (ppb)	50.00 (ppb)
Standard 4	100.00 (ppb)	500.00 (ppb)	200.00 (ppb)	-- (ppb)	100.00 (ppb)	1000.00 (ppb)	500.00 (ppb)
Standard 3	1000.00 (ppb)	5000.00 (ppb)	2000.00 (ppb)	500.00 (ppb)	1000.00 (ppb)	10000.00 (ppb)	5000.00 (ppb)
Standard 2	2500.00 (ppb)	12500.00 (ppb)	5000.00 (ppb)	1250.00 (ppb)	2500.00 (ppb)	25000.00 (ppb)	12500.00 (ppb)
Standard 1			10000.00 (ppb)	2500.00 (ppb)	5000.00 (ppb)	50000.00 (ppb)	25000.00 (ppb)
SI 100							
SI 1000							
SI 5000							
ICV	1023.59 (ppb)	971.05 (ppb)	1033.47 Q (ppb)	975.58 (ppb)	994.77 (ppb)	1021.12 (ppb)	1003.83 (ppb)
ICB	0.36 u (ppb)	8.18 (ppb)	0.28 (ppb)	0.78 u (ppb)	0.22 u (ppb)	0.45 u (ppb)	5.73 (ppb)
LLV	11.17 (ppb)	48.39 (ppb)	20.94 (ppb)	5.65 (ppb)	11.41 (ppb)	105.49 (ppb)	56.86 (ppb)
CCV	983.74 (ppb)	5034.54 (ppb)	1985.70 (ppb)	517.02 (ppb)	1013.95 (ppb)	9975.77 (ppb)	5203.85 (ppb)
CCB	0.26 u (ppb)	4.56 u (ppb)	0.77 u (ppb)	-1.01 u (ppb)	0.61 (ppb)	-1.44 u (ppb)	7.04 (ppb)
ICSA	2.32 (ppb)	25.26 (ppb)	3.71 (ppb)	0.80 (ppb)	5.62 (ppb)	-5.42 u (ppb)	3.68 u (ppb)
ICSAB	922.52 (ppb)	2316.82 (ppb)	445.10 (ppb)	875.57 (ppb)	430.13 (ppb)	811.01 (ppb)	2377.34 (ppb)
MB0627SM1	0.31 u (ppb)	0.24 u (ppb)	1.09 (ppb)	-0.12 u (ppb)	1.28 (ppb)	-3.36 u (ppb)	1.44 u (ppb)
SB0627SM1	436.35 (ppb)	1920.90 (ppb)	1975.88 (ppb)	943.05 (ppb)	1995.42 (ppb)	5071.27 (ppb)	1899.93 (ppb)
06-292-02	1.86 (ppb)	83.92 (ppb)	1063.99 (ppb)	3.85 (ppb)	387.32 (ppb)	521.97 (ppb)	17.56 (ppb)
06-292-02 D	2.01 (ppb)	92.24 (ppb)	1286.85 (ppb)	3.81 (ppb)	344.45 (ppb)	602.89 (ppb)	2.37 (ppb)
06-292-02 L	0.43 u (ppb)	20.87 (ppb)	221.32 (ppb)	1.36 (ppb)	82.21 (ppb)	110.35 (ppb)	1.69 u (ppb)
06-292-02 MS	410.46 (ppb)	1927.36 (ppb)	3072.40 (ppb)	937.78 (ppb)	2307.03 (ppb)	5394.71 (ppb)	1826.49 (ppb)
06-292-02 MSD	409.90 (ppb)	1943.57 (ppb)	3032.06 (ppb)	935.07 (ppb)	2294.89 (ppb)	5365.30 (ppb)	1869.30 (ppb)
06-292-01	18.67 (ppb)	216.40 (ppb)	3665.02 (ppb)	35.24 (ppb)	640.71 (ppb)	9378.91 (ppb)	0.34 u (ppb)
CCV	987.24 (ppb)	5004.20 (ppb)	1989.26 (ppb)	518.48 (ppb)	1017.57 (ppb)	10015.59 (ppb)	5226.57 (ppb)
CCB	0.96 u (ppb)	5.05 u (ppb)	0.84 (ppb)	-0.39 u (ppb)	1.00 (ppb)	-0.21 u (ppb)	6.88 (ppb)
06-320-01a	2.93 (ppb)	48.81 (ppb)	1041.78 (ppb)	1.59 (ppb)	739.98 (ppb)	93.62 (ppb)	1.16 u (ppb)
06-320-02a	6.22 (ppb)	549.91 (ppb)	1765.49 (ppb)	11.78 (ppb)	638.66 (ppb)	8267.95 (ppb)	0.26 u (ppb)
06-320-03a	3.16 (ppb)	194.17 (ppb)	1267.13 (ppb)	7.71 (ppb)	682.75 (ppb)	7544.71 (ppb)	-0.49 u (ppb)
06-292-03	2.49 (ppb)	67.03 (ppb)	657.64 (ppb)	1.54 (ppb)	296.30 (ppb)	136.97 (ppb)	5.39 (ppb)
06-295-03	28.88 (ppb)	67.99 (ppb)	194.47 (ppb)	839.31 (ppb)	56096.04 o (ppb)	26.18 (ppb)	23.44 (ppb)
06-295-03 X 20	0.90 (ppb)	-8.01 u (ppb)	11.29 (ppb)	49.53 (ppb)	3361.03 (ppb)	-4.40 u (ppb)	4.82 (ppb)
BLK	0.03 u (ppb)	-4.62 u (ppb)	0.49 (ppb)	0.29 u (ppb)	0.62 u (ppb)	0.61 u (ppb)	-3.53 u (ppb)

# Test Report



Agilent Technologies

Solution Label	Ag (328.068 nm)	As (193.696 nm)	Ba (233.527 nm)	Cd (228.802 nm)	Cr (205.560 nm)	Pb (220.353 nm)	Se A (196.026 nm)
ME0627WH1	0.60 (ppb)	1.09 u (ppb)	0.12 (ppb)	-0.78 u (ppb)	1.48 (ppb)	-0.71 u (ppb)	-0.44 u (ppb)
SB0627WH1	431.54 (ppb)	1982.61 (ppb)	1955.84 (ppb)	952.89 (ppb)	1965.55 (ppb)	4920.60 (ppb)	2013.46 (ppb)
06-107-04	1.87 (ppb)	9.89 u (ppb)	14.64 (ppb)	0.38 u (ppb)	1.88 (ppb)	-3.89 u (ppb)	4.94 u (ppb)
CCV	982.53 (ppb)	4961.05 (ppb)	1991.25 (ppb)	517.31 (ppb)	1013.74 (ppb)	10072.58 (ppb)	5197.43 (ppb)
CCB	-0.10 u (ppb)	3.91 u (ppb)	0.45 (ppb)	0.43 (ppb)	0.63 u (ppb)	2.67 (ppb)	8.59 (ppb)

Volatile Organics  
EPA 8260D Data

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627005.D  
 Acq On : 27 Jun 2023 12:59 pm  
 Operator :  
 Sample : 06-320-01x  
 Misc : ~~V4=109=02, V4=109=06~~ <sup>6/27/23</sup>  
 ALS Vial : 5 Sample Multiplier: 1

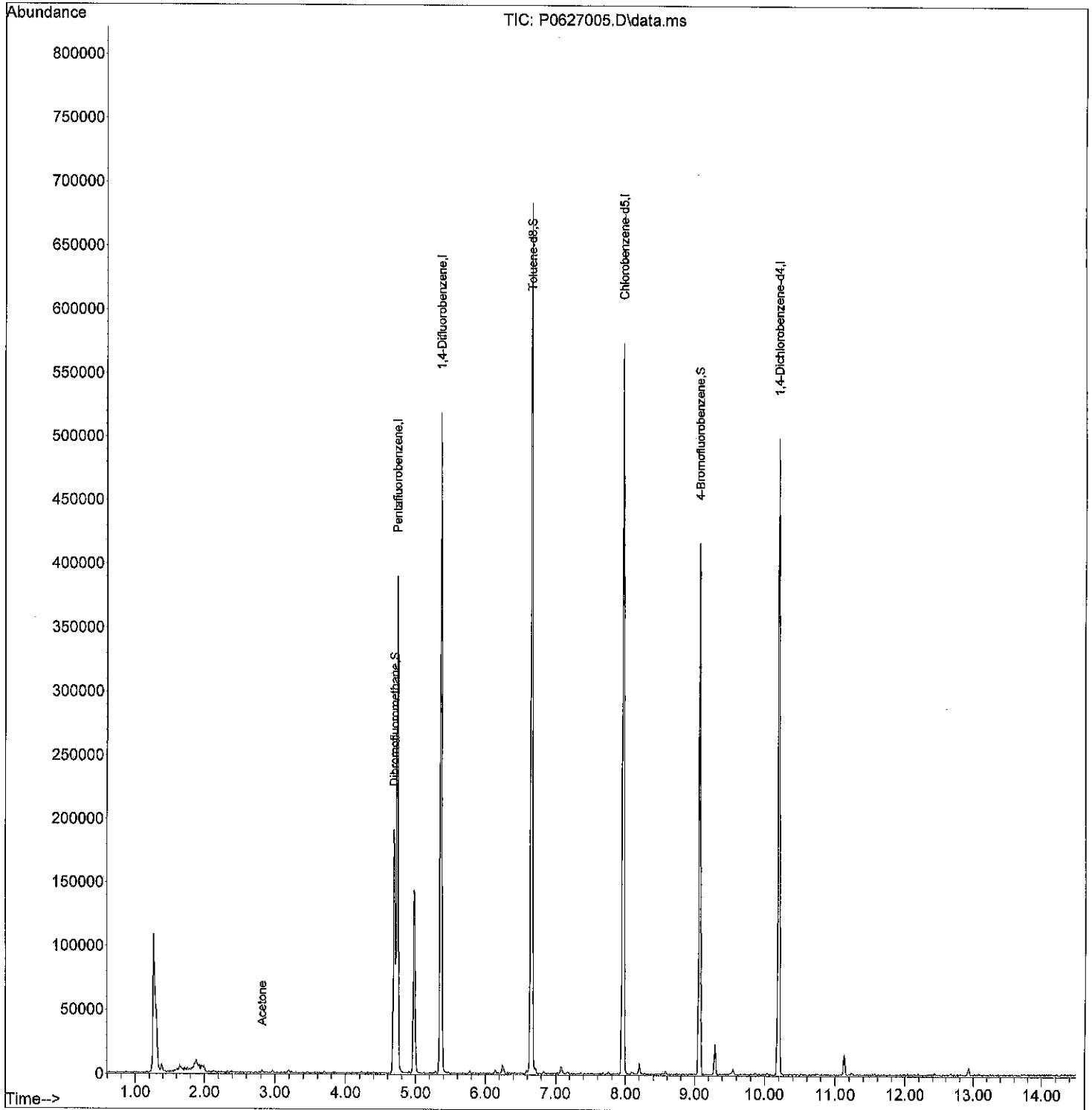
Quant Time: Jun 27 14:23:06 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.732	168	233889	50.00	ppb	0.00
28) 1,4-Difluorobenzene	5.360	114	384809	50.00	ppb	0.00
38) Chlorobenzene-d5	7.963	117	323285	50.00	ppb	0.00
55) 1,4-Dichlorobenzene-d4	10.195	152	139177	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
23) Dibromofluoromethane	4.690	111	98408	40.72	ppb	0.00
Spiked Amount	50.000	Range 74 - 131	Recovery =	81.44%		
36) Toluene-d8	6.653	98	415520	46.17	ppb	0.00
Spiked Amount	50.000	Range 78 - 128	Recovery =	92.34%		
54) 4-Bromofluorobenzene	9.067	95	121897	46.46	ppb	0.00
Spiked Amount	50.000	Range 71 - 130	Recovery =	92.92%		
<b>Target Compounds</b>						
9) Acetone	2.818	43	1761	5.31	ppb	Qvalue 99

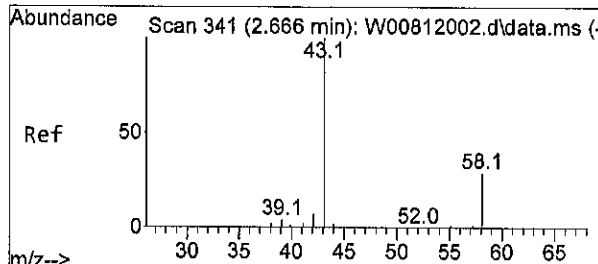
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
Data File : P0627005.D  
Acq On : 27 Jun 2023 12:59 pm  
Operator :  
Sample : 06-320-01x  
Misc : V4-109-02, V4-109-06-6/27/23  
ALS Vial : 5 Sample Multiplier: 1 *lu*

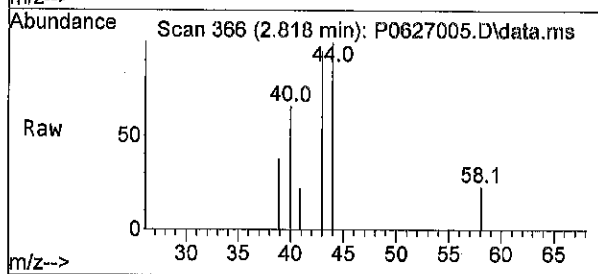
Quant Time: Jun 27 14:23:06 2023  
Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
Quant Title :  
QLast Update : Wed May 03 10:23:36 2023  
Response via : Initial Calibration



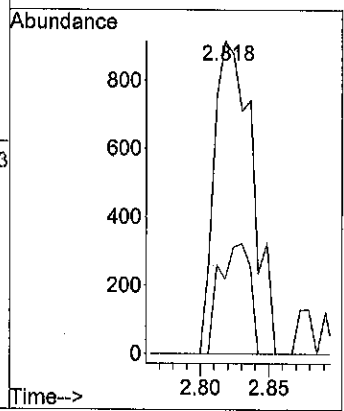
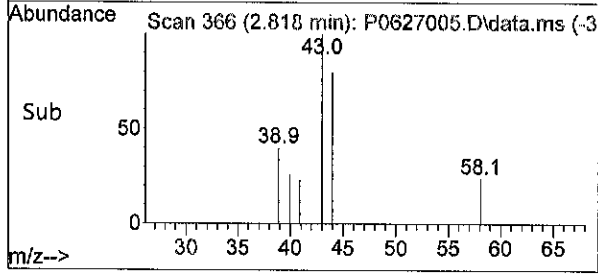




#9  
 Acetone  
 Concen: 5.31 ppb  
 RT: 2.818 min Scan# 366  
 Delta R.T. 0.012 min  
 Lab File: P0627005.D  
 Acq: 27 Jun 2023 12:59 pm



Tgt Ion: 43 Resp: 1761  
 Ion Ratio Lower Upper  
 43 100  
 58 28.4 23.2 34.8



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627006.D  
 Acq On : 27 Jun 2023 01:27 pm  
 Operator :  
 Sample : 06-320-02x  
 Misc : ~~V4-109-02, V4-109-06~~ 6/27/23  
 ALS Vial : 6 Sample Multiplier: 1

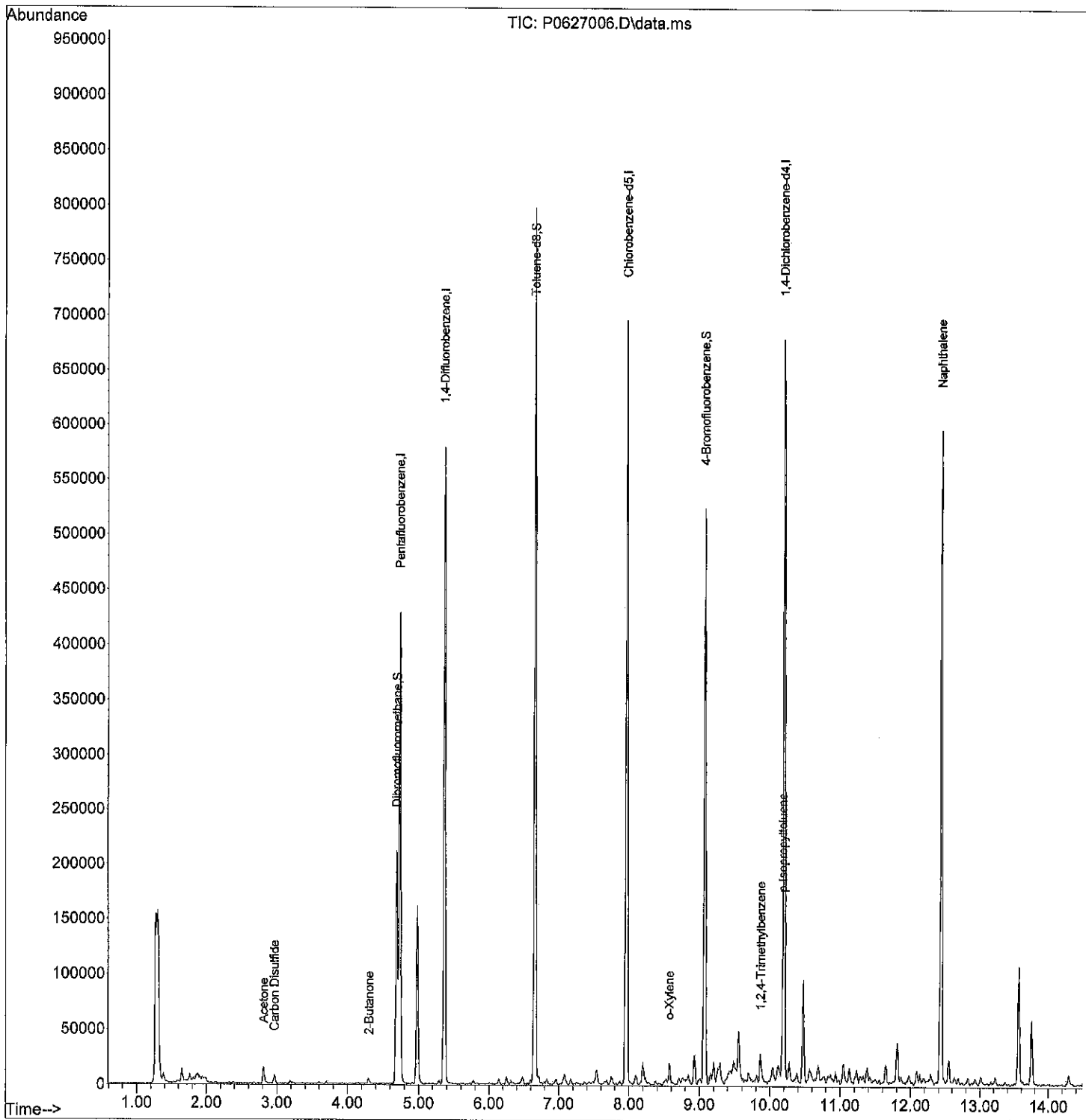
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 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

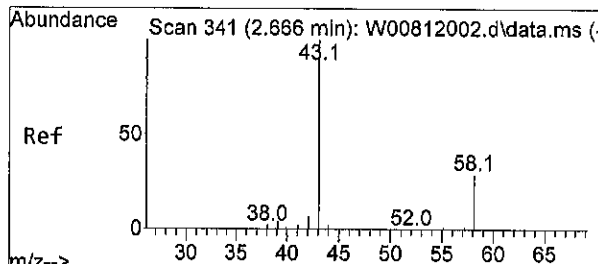
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.732	168	252495	50.00	ppb	0.00
28) 1,4-Difluorobenzene	5.360	114	428751	50.00	ppb	0.00
38) Chlorobenzene-d5	7.963	117	388885	50.00	ppb	0.00
55) 1,4-Dichlorobenzene-d4	10.195	152	184595	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
23) Dibromofluoromethane	4.690	111	111987	42.93	ppb	0.00
Spiked Amount	50.000	Range 74 - 131	Recovery =	85.86%		
36) Toluene-d8	6.653	98	473229	47.20	ppb	0.00
Spiked Amount	50.000	Range 78 - 128	Recovery =	94.40%		
54) 4-Bromofluorobenzene	9.067	95	153037	48.49	ppb	0.00
Spiked Amount	50.000	Range 71 - 130	Recovery =	96.98%		
<b>Target Compounds</b>						
9) Acetone	2.812	43	16975	47.40	ppb	96
11) Carbon Disulfide	2.964	76	8723	1.41	ppb	99
19) 2-Butanone	4.306	43	5425	9.08	ppb #	84
50) o-Xylene	8.573	91	8865	1.16	ppb	89
64) 1,2,4-Trimethylbenzene	9.866	105	11771	1.69	ppb	99
67) p-Isopropyltoluene	10.176	119	9377	1.19	ppb	91
74) Naphthalene	12.432	128	516715	130.89	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627006.D  
 Acq On : 27 Jun 2023 01:27 pm  
 Operator :  
 Sample : 06-320-02x  
 Misc : V4-109-02, V4-109-06 6/27/23 *mu*.  
 ALS Vial : 6 Sample Multiplier: 1

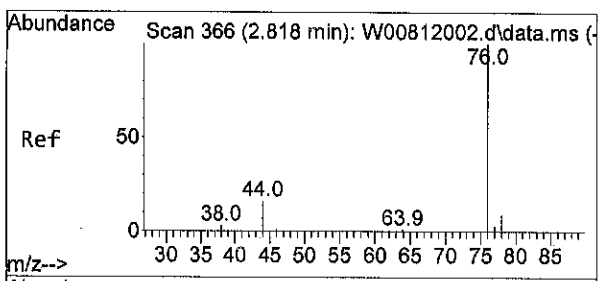
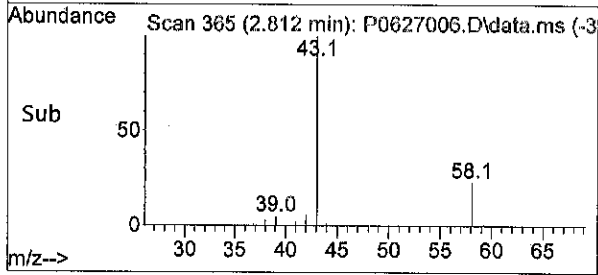
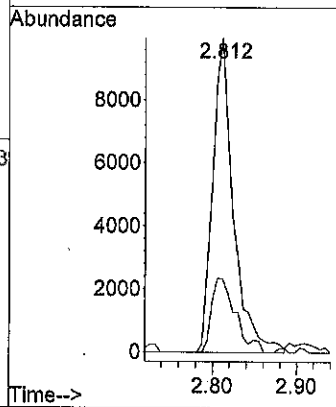
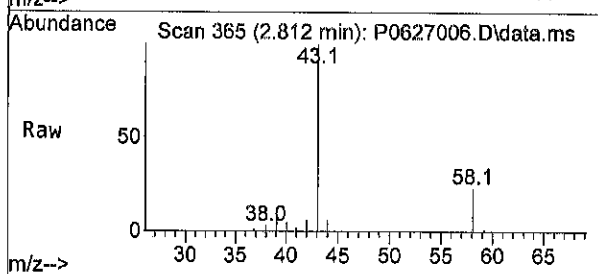
Quant Time: Jun 27 14:23:13 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration





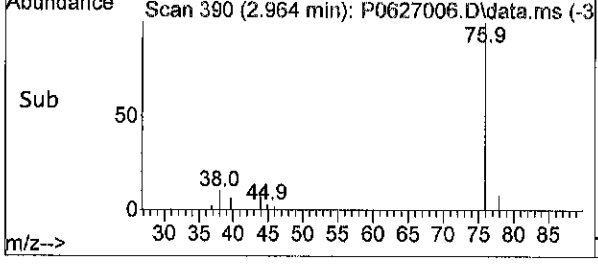
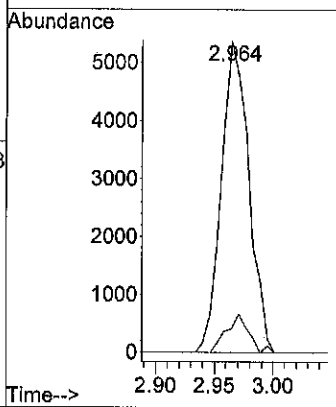
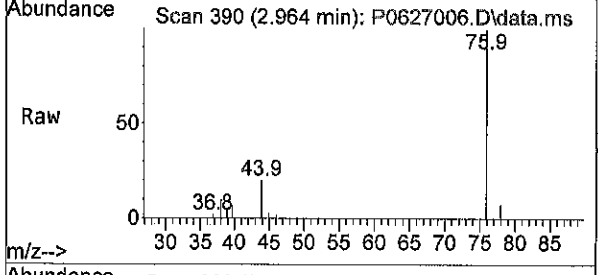
#9  
 Acetone  
 Concen: 47.40 ppb  
 RT: 2.812 min Scan# 365  
 Delta R.T. 0.006 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm

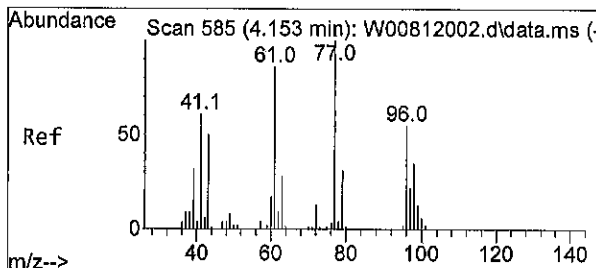
Tgt Ion: 43 Resp: 16975  
 Ion Ratio Lower Upper  
 43 100  
 58 27.1 23.2 34.8



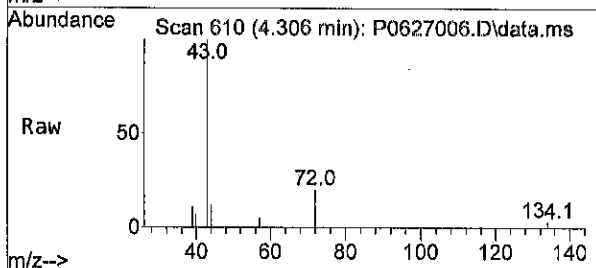
#11  
 Carbon Disulfide  
 Concen: 1.41 ppb  
 RT: 2.964 min Scan# 390  
 Delta R.T. 0.000 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm

Tgt Ion: 76 Resp: 8723  
 Ion Ratio Lower Upper  
 76 100  
 78 10.0 7.7 11.5

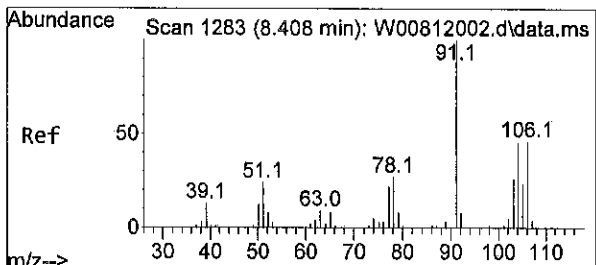
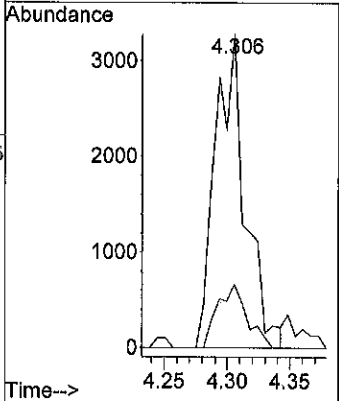
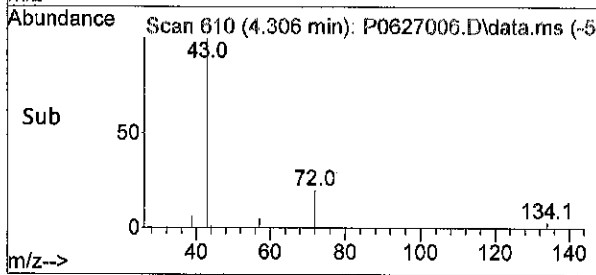




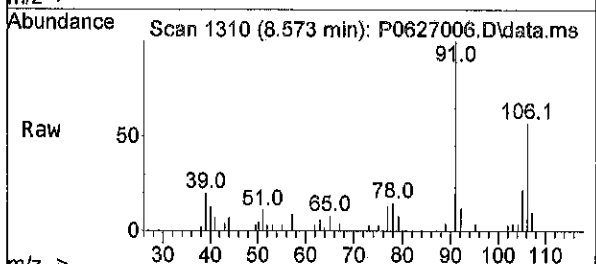
#19  
 2-Butanone  
 Concen: 9.08 ppb  
 RT: 4.306 min Scan# 610  
 Delta R.T. 0.013 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm



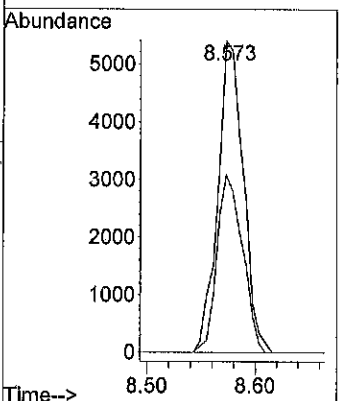
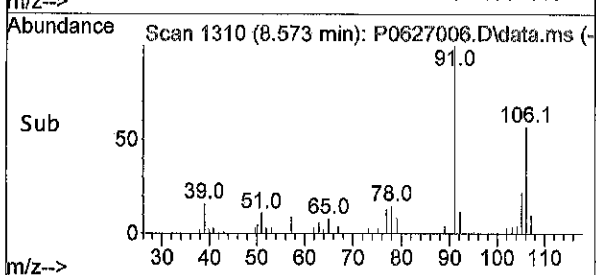
Tgt Ion: 43 Resp: 5425  
 Ion Ratio Lower Upper  
 43 100  
 72 19.9 22.8 34.2#

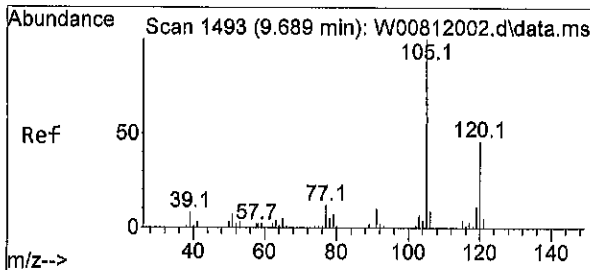


#50  
 o-Xylene  
 Concen: 1.16 ppb  
 RT: 8.573 min Scan# 1310  
 Delta R.T. 0.000 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm



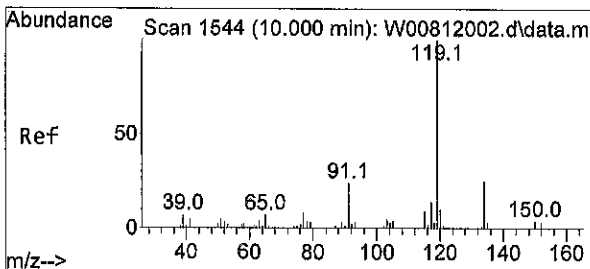
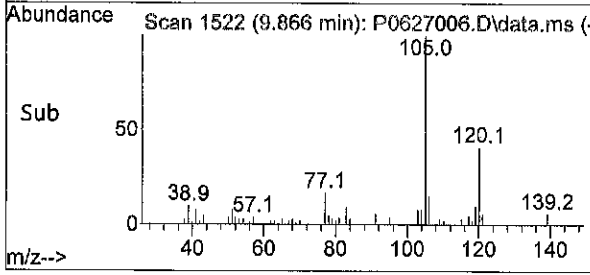
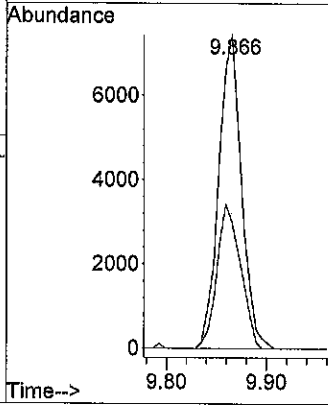
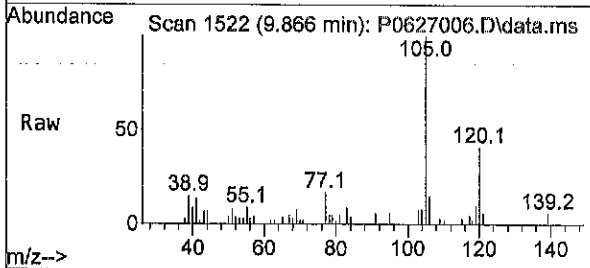
Tgt Ion: 91 Resp: 8865  
 Ion Ratio Lower Upper  
 91 100  
 106 57.5 40.1 60.1





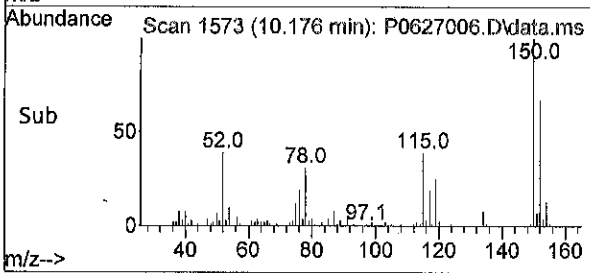
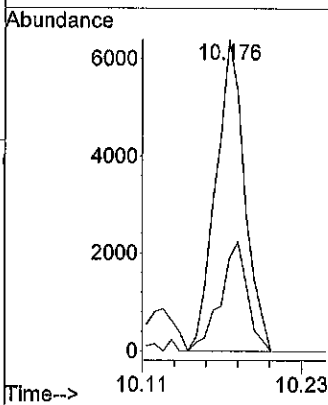
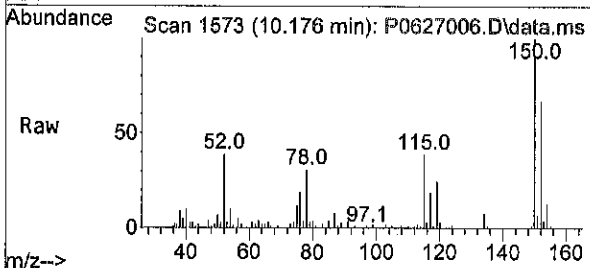
#64  
 1,2,4-Trimethylbenzene  
 Concen: 1.69 ppb  
 RT: 9.866 min Scan# 1522  
 Delta R.T. 0.007 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm

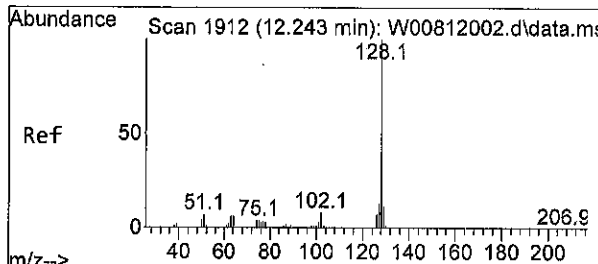
Tgt Ion: 105 Resp: 11771  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 38.7 58.1



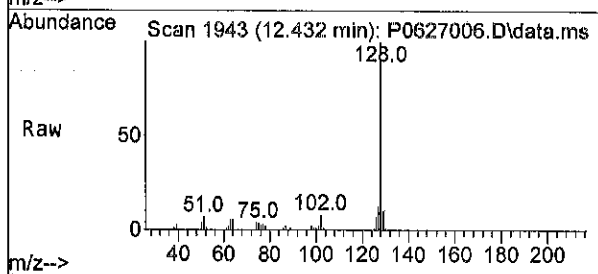
#67  
 p-Isopropyltoluene  
 Concen: 1.19 ppb  
 RT: 10.176 min Scan# 1573  
 Delta R.T. 0.006 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm

Tgt Ion: 119 Resp: 9377  
 Ion Ratio Lower Upper  
 119 100  
 134 32.5 22.1 33.1

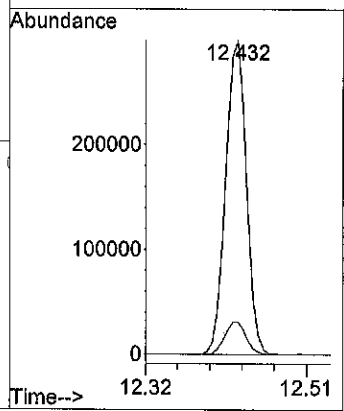
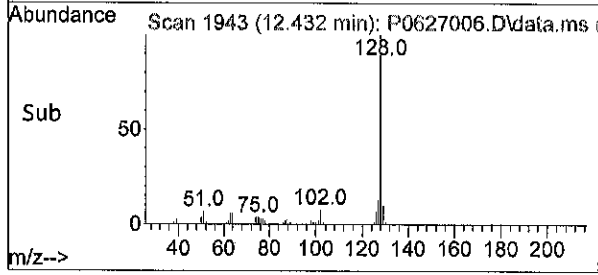




#74  
 Naphthalene  
 Concen: 130.89 ppb  
 RT: 12.432 min Scan# 1943  
 Delta R.T. 0.012 min  
 Lab File: P0627006.D  
 Acq: 27 Jun 2023 01:27 pm



Tgt Ion: 128 Resp: 516715  
 Ion Ratio Lower Upper  
 128 100  
 129 10.6 8.7 13.1



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627007.D  
 Acq On : 27 Jun 2023 01:55 pm  
 Operator :  
 Sample : 06-320-03x  
 Misc : ~~V4-109-02, V4-109-06~~ 6/27/23  
 ALS Vial : 7 Sample Multiplier: 1 *en*

Quant Time: Jun 27 14:23:22 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

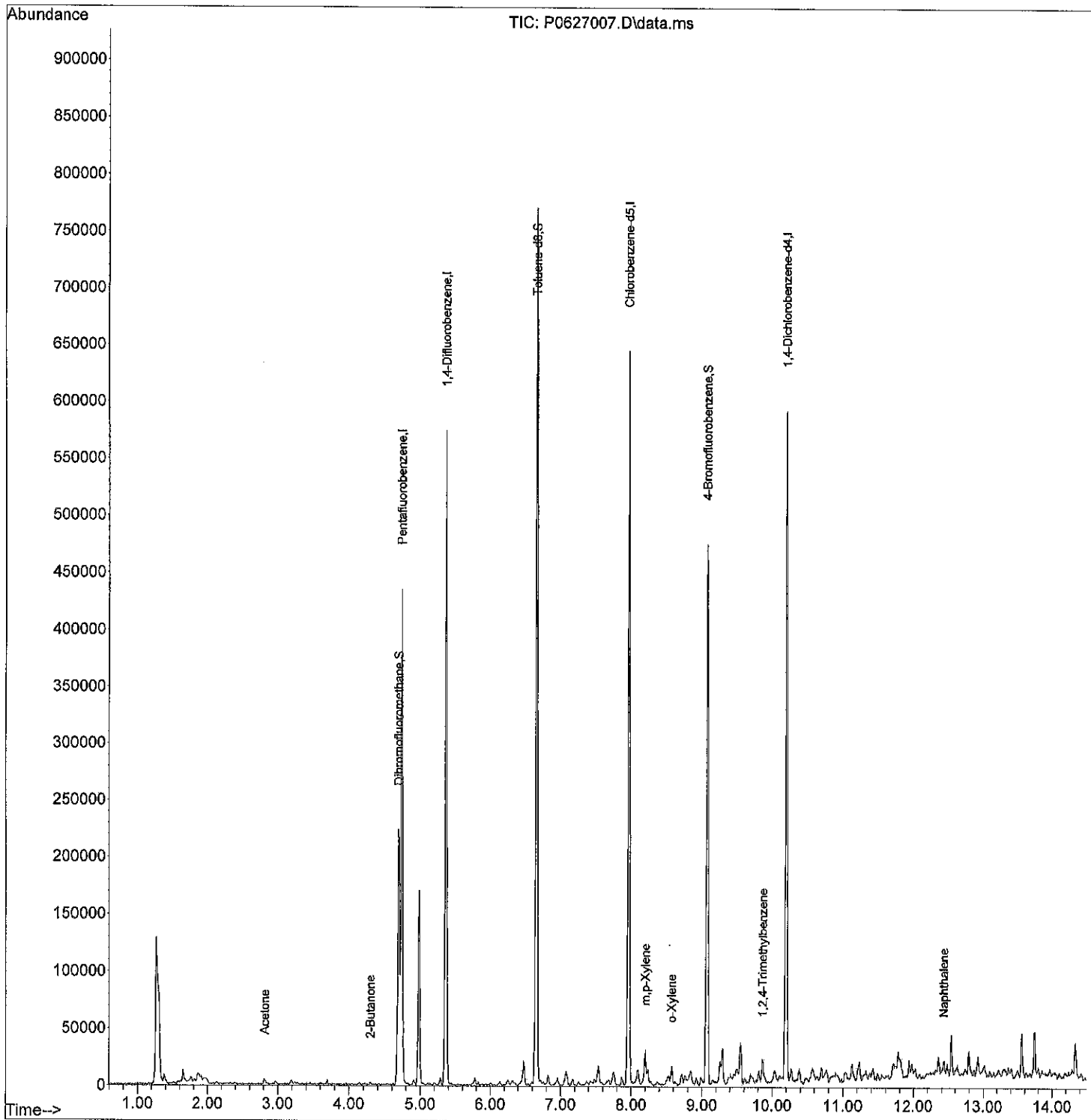
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.732	168	261397	50.00	ppb	0.00
28) 1,4-Difluorobenzene	5.360	114	422602	50.00	ppb	0.00
38) Chlorobenzene-d5	7.957	117	364711	50.00	ppb	0.00
55) 1,4-Dichlorobenzene-d4	10.195	152	156507	50.00	ppb	0.00
<b>System Monitoring Compounds</b>						
23) Dibromofluoromethane	4.690	111	119088	44.09	ppb	0.00
Spiked Amount	50.000	Range 74 - 131	Recovery	=	88.18%	
36) Toluene-d8	6.653	98	461378	46.68	ppb	0.00
Spiked Amount	50.000	Range 78 - 128	Recovery	=	93.36%	
54) 4-Bromofluorobenzene	9.067	95	139446	47.11	ppb	0.00
Spiked Amount	50.000	Range 71 - 130	Recovery	=	94.22%	
<b>Target Compounds</b>						
9) Acetone	2.812	43	5881	15.86	ppb	93
19) 2-Butanone	4.300	43	1797	2.91	ppb #	83
49) m,p-Xylene	8.201	91	13206	1.01	ppb	95
50) o-Xylene	8.573	91	7197	1.00	ppb	98
64) 1,2,4-Trimethylbenzene	9.866	105	8049	1.36	ppb	98
74) Naphthalene	12.432	128	9344	2.79	ppb #	90

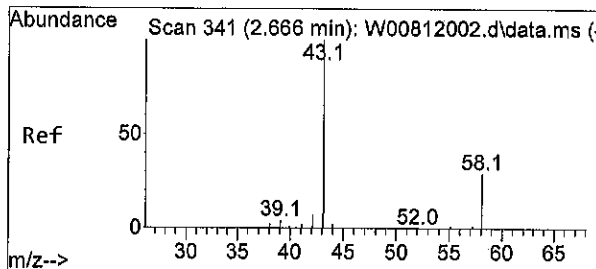
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627007.D  
 Acq On : 27 Jun 2023 01:55 pm  
 Operator :  
 Sample : 06-320-03x  
 Misc : ~~V4-109-02, V4-109-06~~ 6/27/23  
 ALS Vial : 7 Sample Multiplier: 1 *lu.*

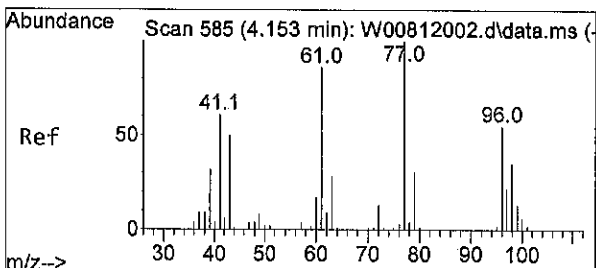
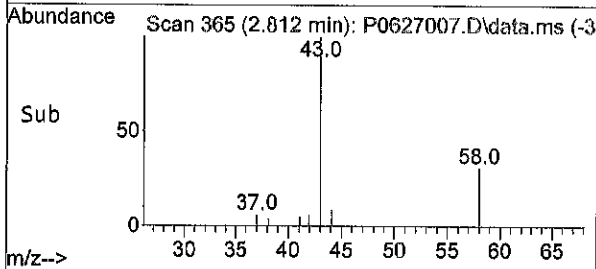
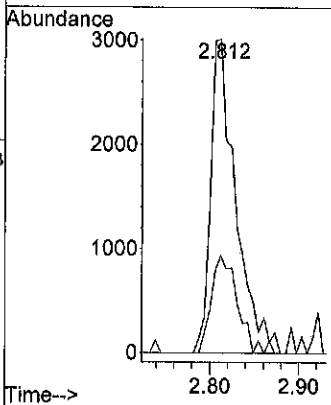
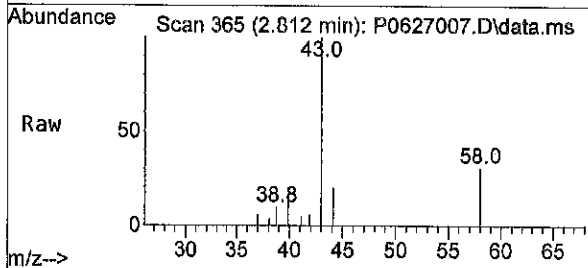
Quant Time: Jun 27 14:23:22 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration





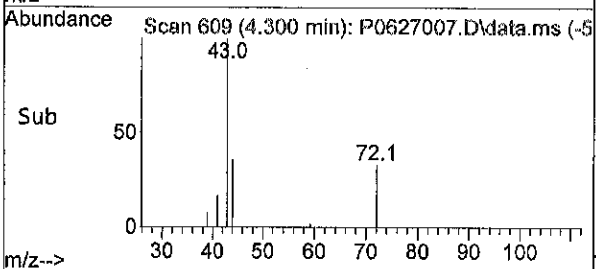
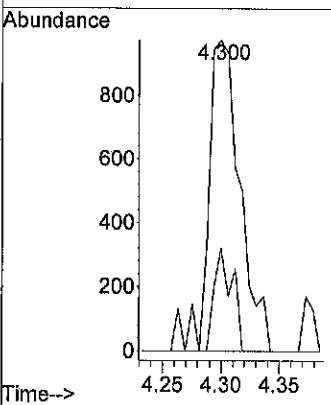
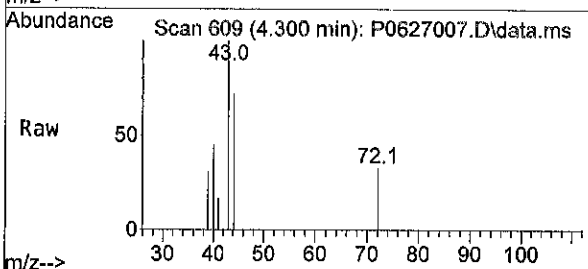
#9  
 Acetone  
 Concen: 15.86 ppb  
 RT: 2.812 min Scan# 365  
 Delta R.T. 0.006 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

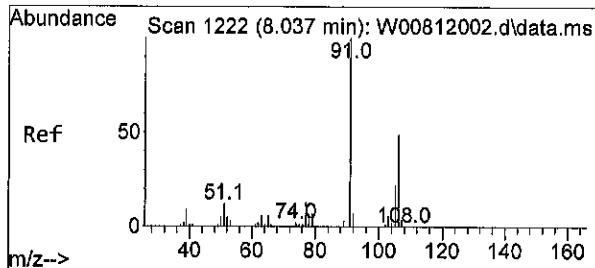
Tgt Ion: 43 Resp: 5881  
 Ion Ratio Lower Upper  
 43 100  
 58 32.7 23.2 34.8



#19  
 2-Butanone  
 Concen: 2.91 ppb  
 RT: 4.300 min Scan# 609  
 Delta R.T. 0.007 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

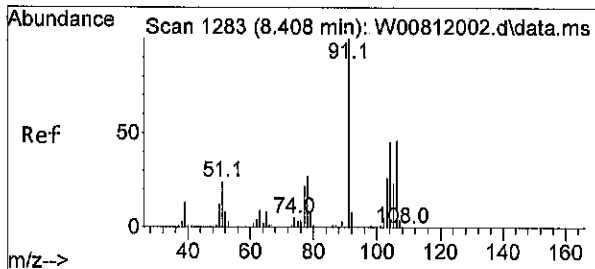
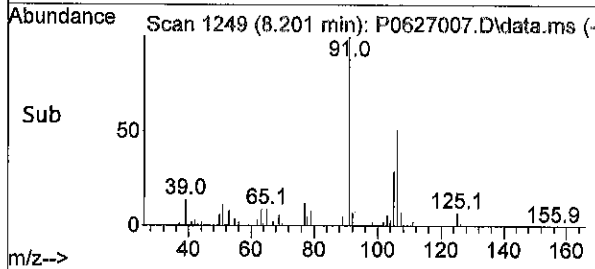
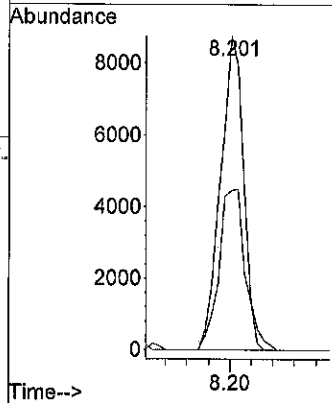
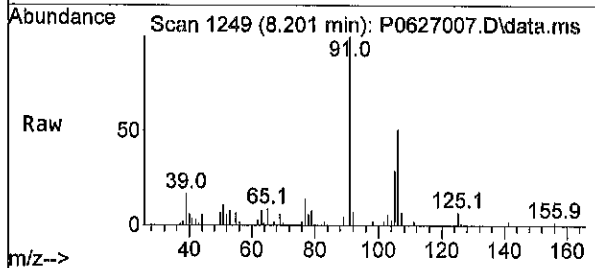
Tgt Ion: 43 Resp: 1797  
 Ion Ratio Lower Upper  
 43 100  
 72 19.3 22.8 34.2#





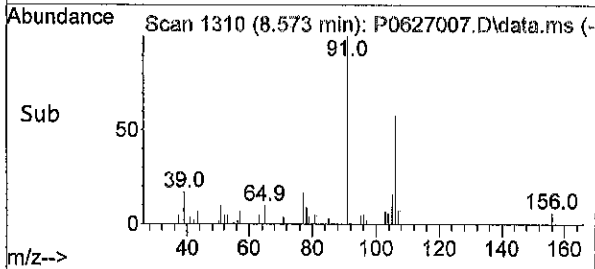
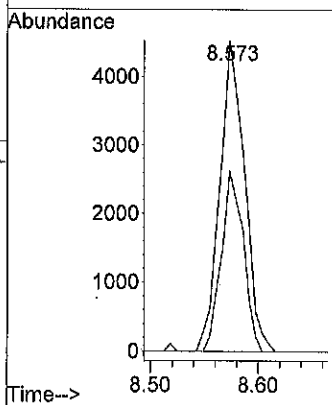
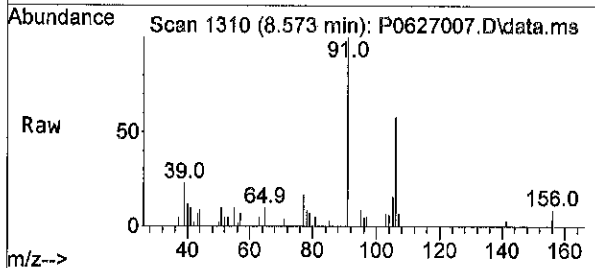
#49  
 m,p-Xylene  
 Concen: 1.01 ppb  
 RT: 8.201 min Scan# 1249  
 Delta R.T. 0.006 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

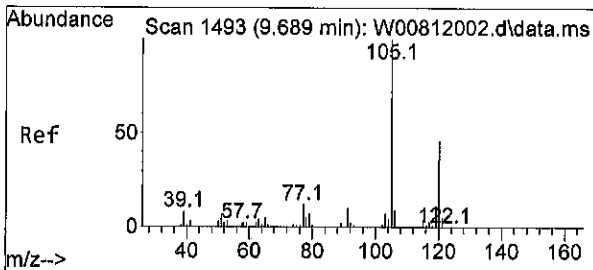
Tgt Ion: 91 Resp: 13206  
 Ion Ratio Lower Upper  
 91 100  
 106 55.8 42.0 63.0



#50  
 o-Xylene  
 Concen: 1.00 ppb  
 RT: 8.573 min Scan# 1310  
 Delta R.T. 0.000 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

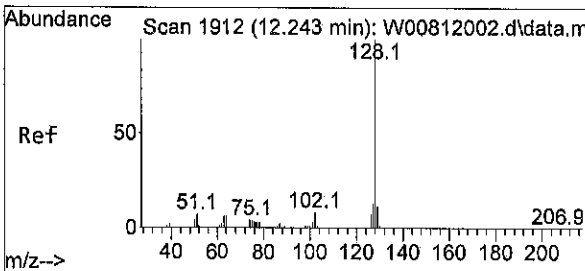
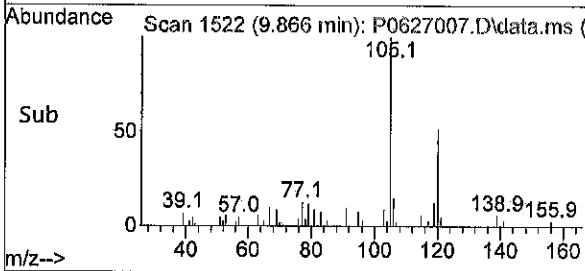
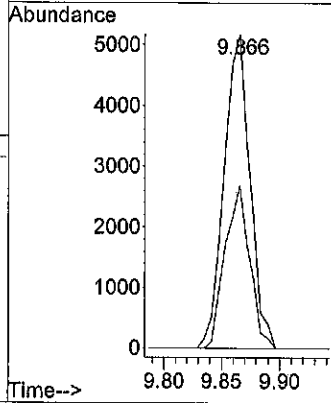
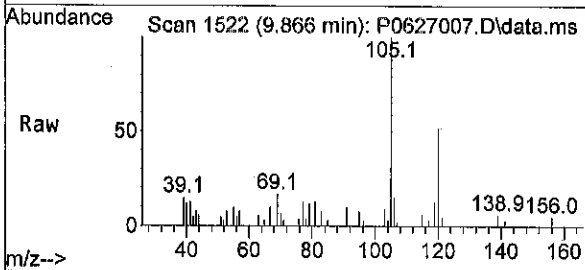
Tgt Ion: 91 Resp: 7197  
 Ion Ratio Lower Upper  
 91 100  
 106 51.6 40.1 60.1





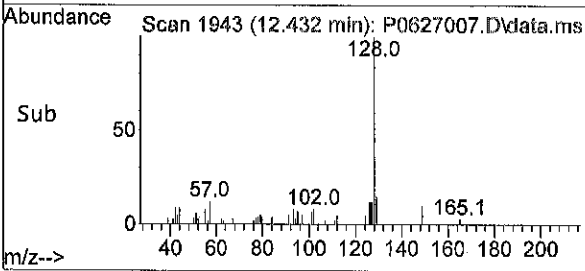
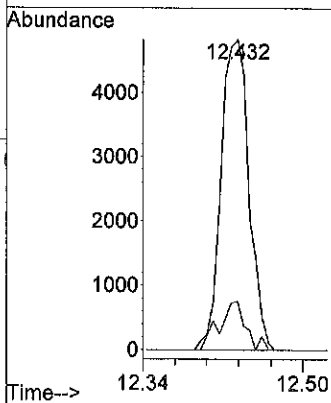
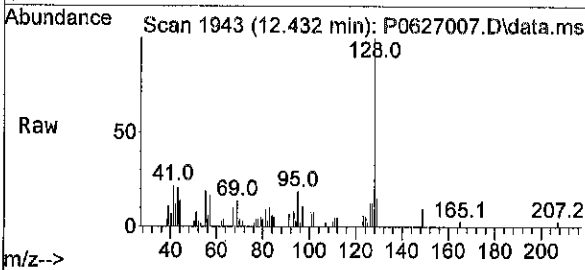
#64  
 1,2,4-Trimethylbenzene  
 Concen: 1.36 ppb  
 RT: 9.866 min Scan# 1522  
 Delta R.T. 0.007 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

Tgt Ion: 105 Resp: 8049  
 Ion Ratio Lower Upper  
 105 100  
 120 49.5 38.7 58.1



#74  
 Naphthalene  
 Concen: 2.79 ppb  
 RT: 12.432 min Scan# 1943  
 Delta R.T. 0.012 min  
 Lab File: P0627007.D  
 Acq: 27 Jun 2023 01:55 pm

Tgt Ion: 128 Resp: 9344  
 Ion Ratio Lower Upper  
 128 100  
 129 14.7 8.7 13.1#



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627004.D  
 Acq On : 27 Jun 2023 12:24 pm  
 Operator :  
 Sample : MB0627S1  
 Misc : V4-109-02, V4-109-06-6 (27/23  
 ALS Vial : 4 Sample Multiplier: 1 *an.*

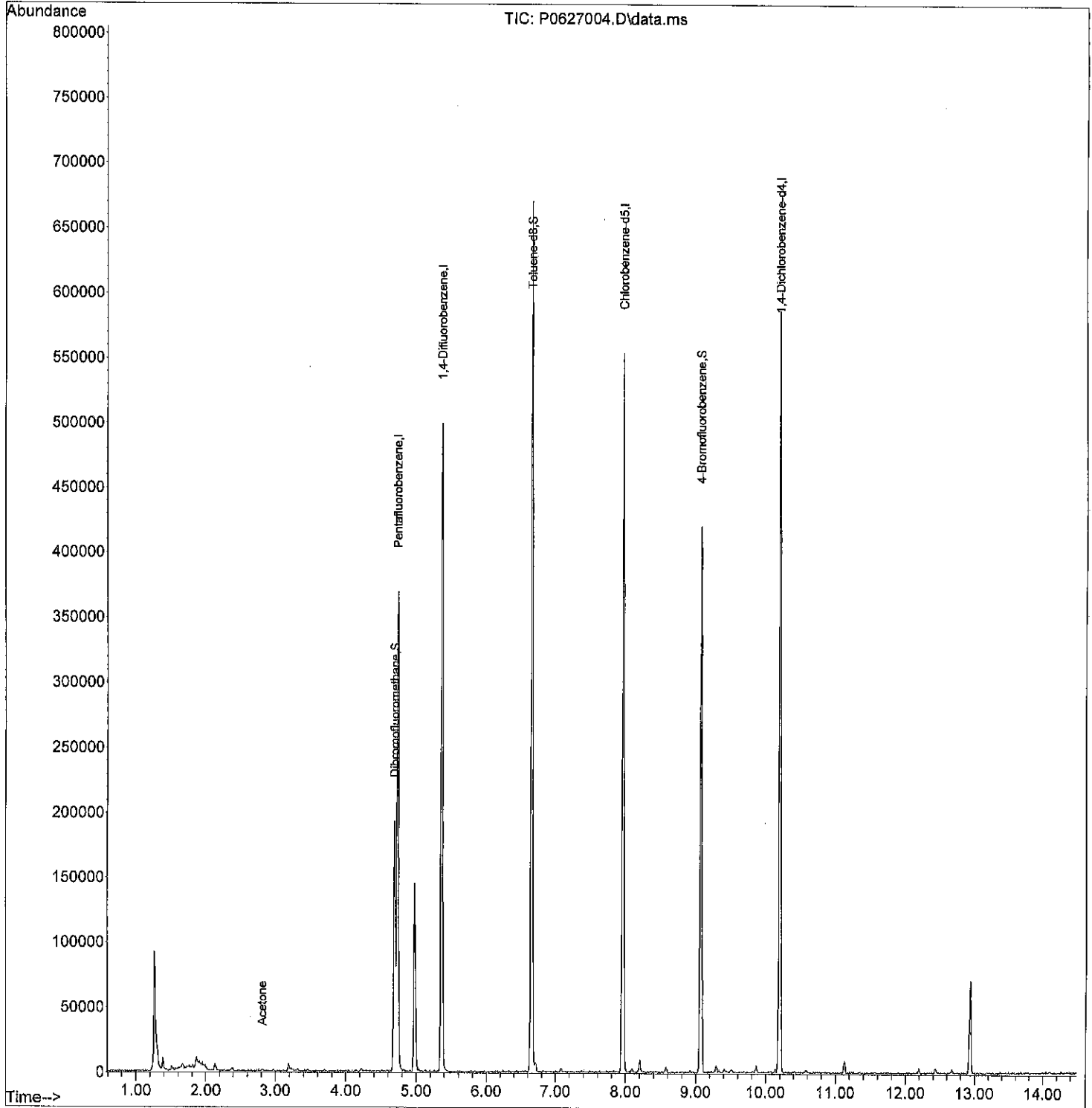
Quant Time: Jun 27 14:22:58 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

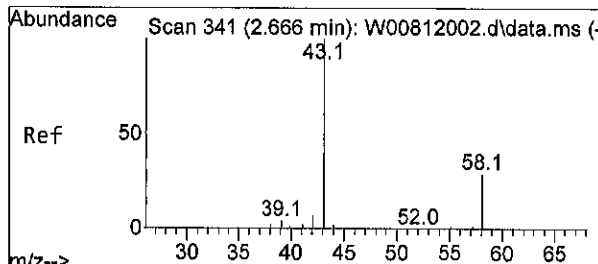
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Pentafluorobenzene	4.732	168	222454	50.00	ppb	0.00
28) 1,4-Difluorobenzene	5.360	114	363524	50.00	ppb	0.00
38) Chlorobenzene-d5	7.964	117	316445	50.00	ppb	0.00
55) 1,4-Dichlorobenzene-d4	10.201	152	162708	50.00	ppb	0.01
System Monitoring Compounds						
23) Dibromofluoromethane	4.690	111	99741	43.39	ppb	0.00
Spiked Amount	50.000	Range 74 - 131	Recovery =	86.78%		
36) Toluene-d8	6.653	98	395732	46.55	ppb	0.00
Spiked Amount	50.000	Range 78 - 128	Recovery =	93.10%		
54) 4-Bromofluorobenzene	9.067	95	125211	48.75	ppb	0.00
Spiked Amount	50.000	Range 71 - 130	Recovery =	97.50%		
Target Compounds						
9) Acetone	2.818	43	1261	4.00	ppb	Qvalue # 83
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

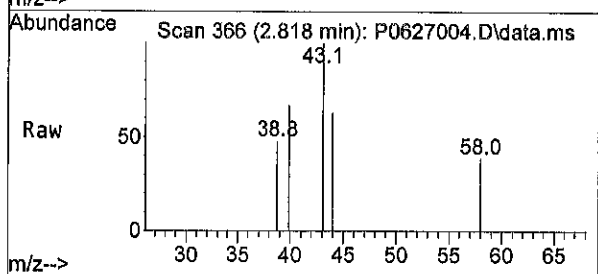
Data Path : D:\MassHunter\GCMS\1\data\20230627\  
Data File : P0627004.D  
Acq On : 27 Jun 2023 12:24 pm  
Operator :  
Sample : MB0627S1  
Misc : V4-109-02, V4-109-06-6/27/23  
ALS Vial : 4 Sample Multiplier: 1 *lu.*

Quant Time: Jun 27 14:22:58 2023  
Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
Quant Title :  
QLast Update : Wed May 03 10:23:36 2023  
Response via : Initial Calibration

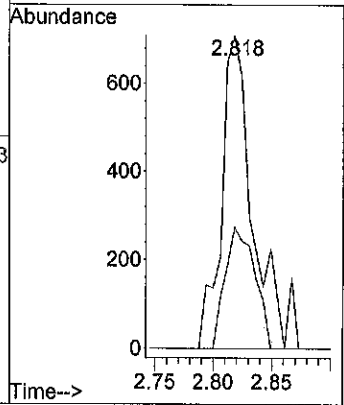
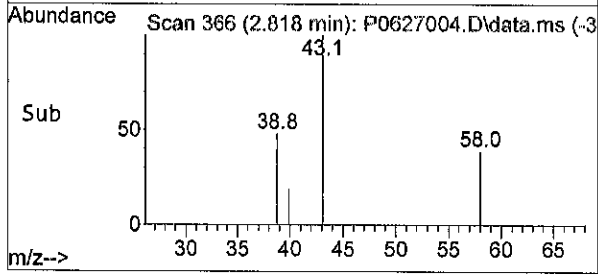




#9  
 Acetone  
 Concen: 4.00 ppb  
 RT: 2.818 min Scan# 366  
 Delta R.T. 0.012 min  
 Lab File: P0627004.D  
 Acq: 27 Jun 2023 12:24 pm



Tgt Ion: 43 Resp: 1261  
 Ion Ratio Lower Upper  
 43 100  
 58 38.1 23.2 34.8#



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Pentafluorobenzene	4.732	168	239488	50.00	ppb	0.00	
28) 1,4-Difluorobenzene	5.360	114	396111	50.00	ppb	0.00	
38) Chlorobenzene-d5	7.964	117	339055	50.00	ppb	0.00	
55) 1,4-Dichlorobenzene-d4	10.201	152	174862	50.00	ppb	0.01	
System Monitoring Compounds							
23) Dibromofluoromethane	4.690	111	103714	41.91	ppb	0.00	
Spiked Amount	50.000	Range 74 - 131	Recovery	=	83.82%		
36) Toluene-d8	6.653	98	434666	46.92	ppb	0.00	
Spiked Amount	50.000	Range 78 - 128	Recovery	=	93.84%		
54) 4-Bromofluorobenzene	9.067	95	139004	50.51	ppb	0.00	
Spiked Amount	50.000	Range 71 - 130	Recovery	=	101.02%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.410	85	58673	39.17	ppb	100	
3) Chloromethane	1.568	50	101674	47.68	ppb	100	
4) Vinyl Chloride	1.666	62	111007	47.01	ppb	99	
5) Bromomethane	1.953	96	73476	38.63	ppb	100	
6) Chloroethane	2.056	64	68277	44.22	ppb	95	
7) Trichlorofluoromethane	2.300	101	148182	45.22	ppb	98	
8) 1,1-Dichloroethene	2.769	61	127786	48.05	ppb	100	
9) Acetone	2.806	43	15226	44.82	ppb	95	
10) Iodomethane	2.897	142	103136	41.48	ppb	99	
11) Carbon Disulfide	2.965	76	227985	38.99	ppb	99	
12) Methylene Chloride	3.190	49	127918	40.53	ppb	98	
13) (trans) 1,2-Dichloroet...	3.434	61	127660	47.36	ppb	99	
14) Methyl t-Butyl Ether	3.446	73	181813	44.63	ppb	96	
15) 1,1-Dichloroethane	3.794	63	159233	48.72	ppb	100	
16) Vinyl Acetate	3.836	43	133656	53.26	ppb	98	
17) 2,2-Dichloropropane	4.300	77	122964	44.97	ppb	99	
18) (cis) 1,2-Dichloroethene	4.287	61	141940	48.02	ppb	98	
19) 2-Butanone	4.294	43	28048	49.50	ppb	97	
20) Bromochloromethane	4.489	130	55162	45.65	ppb	95	
21) Chloroform	4.556	83	146973	45.61	ppb	99	
22) 1,1,1-Trichloroethane	4.732	97	139010	45.24	ppb	95	
24) Carbon Tetrachloride	4.879	117	129822	47.43	ppb	98	
25) 1,1-Dichloropropene	4.867	75	122750	46.33	ppb	99	
26) Benzene	5.043	78	364427	45.77	ppb	100	
27) 1,2-Dichloroethane	5.043	62	100701	46.62	ppb	97	
29) Trichloroethene	5.592	130	102707	50.09	ppb	97	
30) 1,2-Dichloropropane	5.781	63	87113	49.24	ppb	99	
31) Dibromomethane	5.879	174	47579	48.91	ppb	99	
32) Bromodichloromethane	6.007	83	109885	50.01	ppb	95	
33) 2-Chloroethyl Vinyl Ether	6.263	63	34200	47.67	ppb	100	
34) (cis) 1,3-Dichloropropene	6.403	75	131542	50.89	ppb	97	
35) Methyl Isobutyl Ketone	6.531	43	61000	52.82	ppb	95	
37) Toluene	6.714	91	387808	47.20	ppb	100	
39) (trans) 1,3-Dichloropr...	6.885	75	100098	52.83	ppb	99	
40) 1,1,2-Trichloroethane	7.049	97	62541	50.09	ppb	100	



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

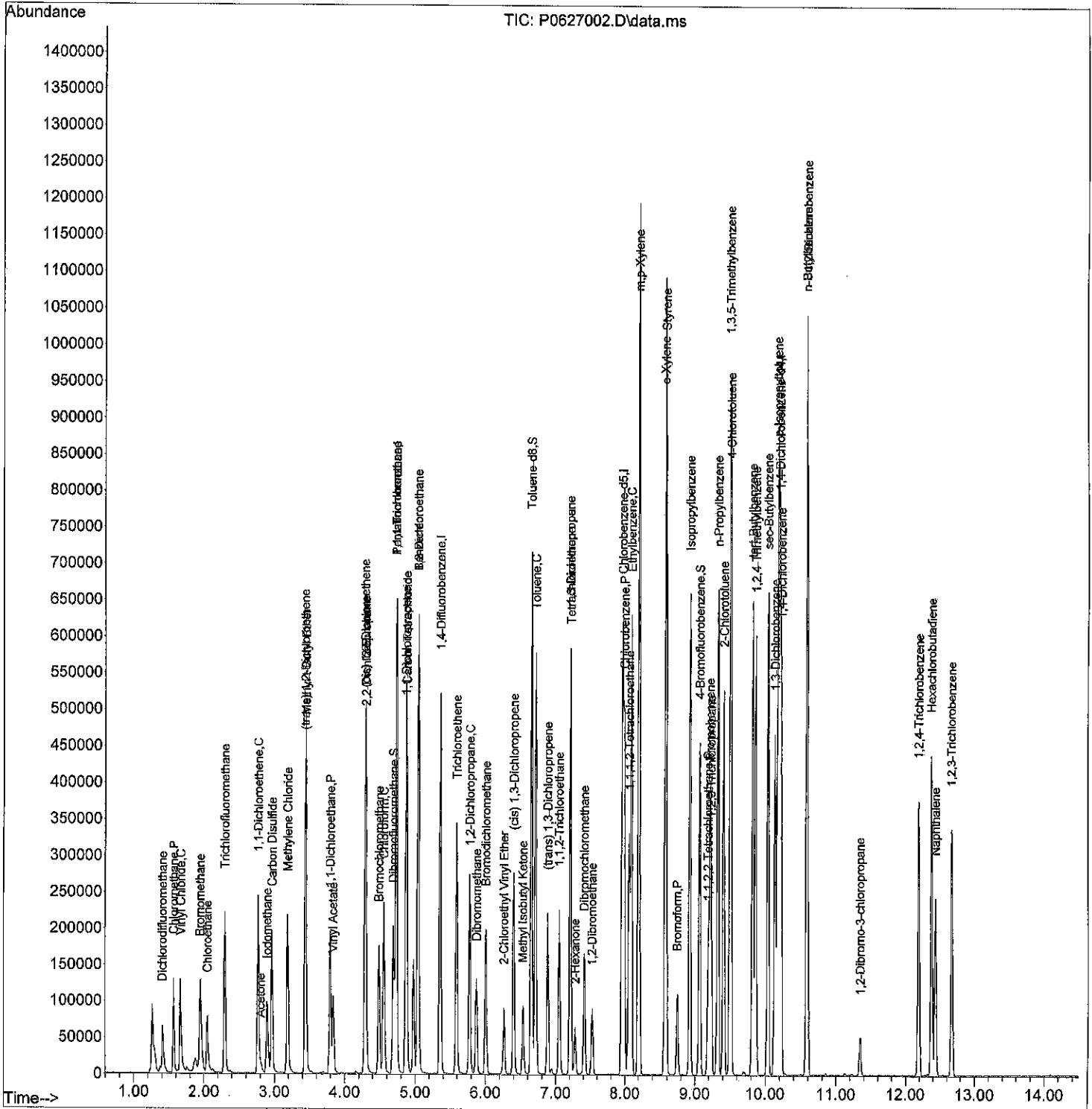
Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Tetrachloroethene	7.214	166	101513	52.56	ppb	98
42) 1,3-Dichloropropane	7.208	76	109018	52.63	ppb	100
43) 2-Hexanone	7.281	43	40119	53.23	ppb	96
44) Dibromochloromethane	7.415	129	78247	52.19	ppb	96
45) 1,2-Dibromoethane	7.525	107	57938	51.17	ppb	99
46) Chlorobenzene	7.988	112	253735	50.81	ppb	98
47) 1,1,1,2-Tetrachloroethane	8.061	133	86482	53.06	ppb	96
48) Ethylbenzene	8.092	91	421452	50.43	ppb	100
49) m,p-Xylene	8.201	91	645986	96.30	ppb	99
50) o-Xylene	8.573	91	322255	48.20	ppb	98
51) Styrene	8.585	104	271517	53.07	ppb	100
52) Bromoform	8.750	173	46737	53.03	ppb	97
53) Isopropylbenzene	8.933	105	431117	53.07	ppb	99
56) Bromobenzene	9.213	156	102691	53.11	ppb	100
57) 1,1,2,2-Tetrachloroethane	9.189	83	79668	55.73	ppb	98
58) 1,2,3-Trichloropropane	9.232	75	68446	55.53	ppb	91
59) n-Propylbenzene	9.329	91	513710	55.66	ppb	98
60) 2-Chlorotoluene	9.408	126	111819	52.03	ppb	97
61) 4-Chlorotoluene	9.512	126	113797	51.91	ppb	99
62) 1,3,5-Trimethylbenzene	9.500	105	352327	53.42	ppb	100
63) tert-Butylbenzene	9.817	119	329737	54.00	ppb	100
64) 1,2,4-Trimethylbenzene	9.866	105	345446	52.37	ppb	98
65) sec-Butylbenzene	10.036	105	458824	54.74	ppb	99
66) 1,3-Dichlorobenzene	10.134	146	200557	52.21	ppb	98
67) p-Isopropyltoluene	10.177	119	408102	54.76	ppb	98
68) 1,4-Dichlorobenzene	10.219	146	209163	50.41	ppb	100
69) 1,2-Dichlorobenzene	10.585	146	185578	52.56	ppb	99
70) n-Butylbenzene	10.579	91	366161	55.52	ppb	99
71) 1,2-Dibromo-3-chloropr...	11.347	157	15085	58.90	ppb	98
72) 1,2,4-Trichlorobenzene	12.188	180	122361	55.29	ppb	98
73) Hexachlorobutadiene	12.371	225	76467	54.71	ppb	98
74) Naphthalene	12.432	128	210849	56.38	ppb	98
75) 1,2,3-Trichlorobenzene	12.670	180	112735	56.52	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627003.D  
 Acq On : 27 Jun 2023 11:56 am  
 Operator :  
 Sample : SBD0627S1  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 12:37:00 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.732	168	243076	50.00	ppb	0.00
28) 1,4-Difluorobenzene	5.354	114	411034	50.00	ppb	0.00
38) Chlorobenzene-d5	7.963	117	333790	50.00	ppb	0.00
55) 1,4-Dichlorobenzene-d4	10.201	152	171135	50.00	ppb	0.01
<b>System Monitoring Compounds</b>						
23) Dibromofluoromethane	4.690	111	105688	42.08	ppb	0.00
Spiked Amount	50.000	Range 74 - 131	Recovery =	84.16%		
36) Toluene-d8	6.653	98	438869	45.66	ppb	0.00
Spiked Amount	50.000	Range 78 - 128	Recovery =	91.32%		
54) 4-Bromofluorobenzene	9.067	95	133897	49.43	ppb	0.00
Spiked Amount	50.000	Range 71 - 130	Recovery =	98.86%		
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.410	85	53238	35.02	ppb	99
3) Chloromethane	1.562	50	97916	45.24	ppb	100
4) Vinyl Chloride	1.660	62	110305	46.02	ppb	96
5) Bromomethane	1.952	96	71653	37.09	ppb	100
6) Chloroethane	2.050	64	63519	40.53	ppb	98
7) Trichlorofluoromethane	2.300	101	145708	43.80	ppb	96
8) 1,1-Dichloroethene	2.763	61	124042	45.96	ppb	99
9) Acetone	2.806	43	17235	49.99	ppb	99
10) Iodomethane	2.897	142	97827	39.01	ppb	100
11) Carbon Disulfide	2.958	76	220511	37.15	ppb	100
12) Methylene Chloride	3.184	49	125651	38.98	ppb	98
13) (trans) 1,2-Dichloroet...	3.434	61	122995	44.96	ppb	98
14) Methyl t-Butyl Ether	3.440	73	173325	41.92	ppb	96
15) 1,1-Dichloroethane	3.794	63	156598	47.21	ppb	98
16) Vinyl Acetate	3.836	43	133259	52.32	ppb	97
17) 2,2-Dichloropropane	4.300	77	122890	44.28	ppb	98
18) (cis) 1,2-Dichloroethene	4.287	61	139684	46.56	ppb	98
19) 2-Butanone	4.293	43	28237	49.09	ppb	95
20) Bromochloromethane	4.489	130	52514	42.82	ppb	93
21) Chloroform	4.556	83	148935	45.53	ppb	99
22) 1,1,1-Trichloroethane	4.726	97	140303	44.99	ppb	95
24) Carbon Tetrachloride	4.879	117	137344	49.44	ppb	100
25) 1,1-Dichloropropene	4.867	75	123621	45.97	ppb	98
26) Benzene	5.043	78	372067	46.04	ppb	99
27) 1,2-Dichloroethane	5.043	62	100242	45.72	ppb	95
29) Trichloroethene	5.592	130	108803	51.13	ppb	97
30) 1,2-Dichloropropane	5.775	63	91779	50.00	ppb	98
31) Dibromomethane	5.872	174	46012	45.59	ppb	97
32) Bromodichloromethane	6.007	83	112609	49.38	ppb	99
33) 2-Chloroethyl Vinyl Ether	6.269	63	33317	44.76	ppb	100
34) (cis) 1,3-Dichloropropene	6.397	75	133705	49.85	ppb	100
35) Methyl Isobutyl Ketone	6.531	43	61825	51.59	ppb	96
37) Toluene	6.714	91	401846	47.13	ppb	100
39) (trans) 1,3-Dichloropr...	6.884	75	102183	54.78	ppb	99
40) 1,1,2-Trichloroethane	7.055	97	62068	50.50	ppb	98

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627003.D  
 Acq On : 27 Jun 2023 11:56 am  
 Operator :  
 Sample : SBD0627S1  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 3 Sample Multiplier: 1

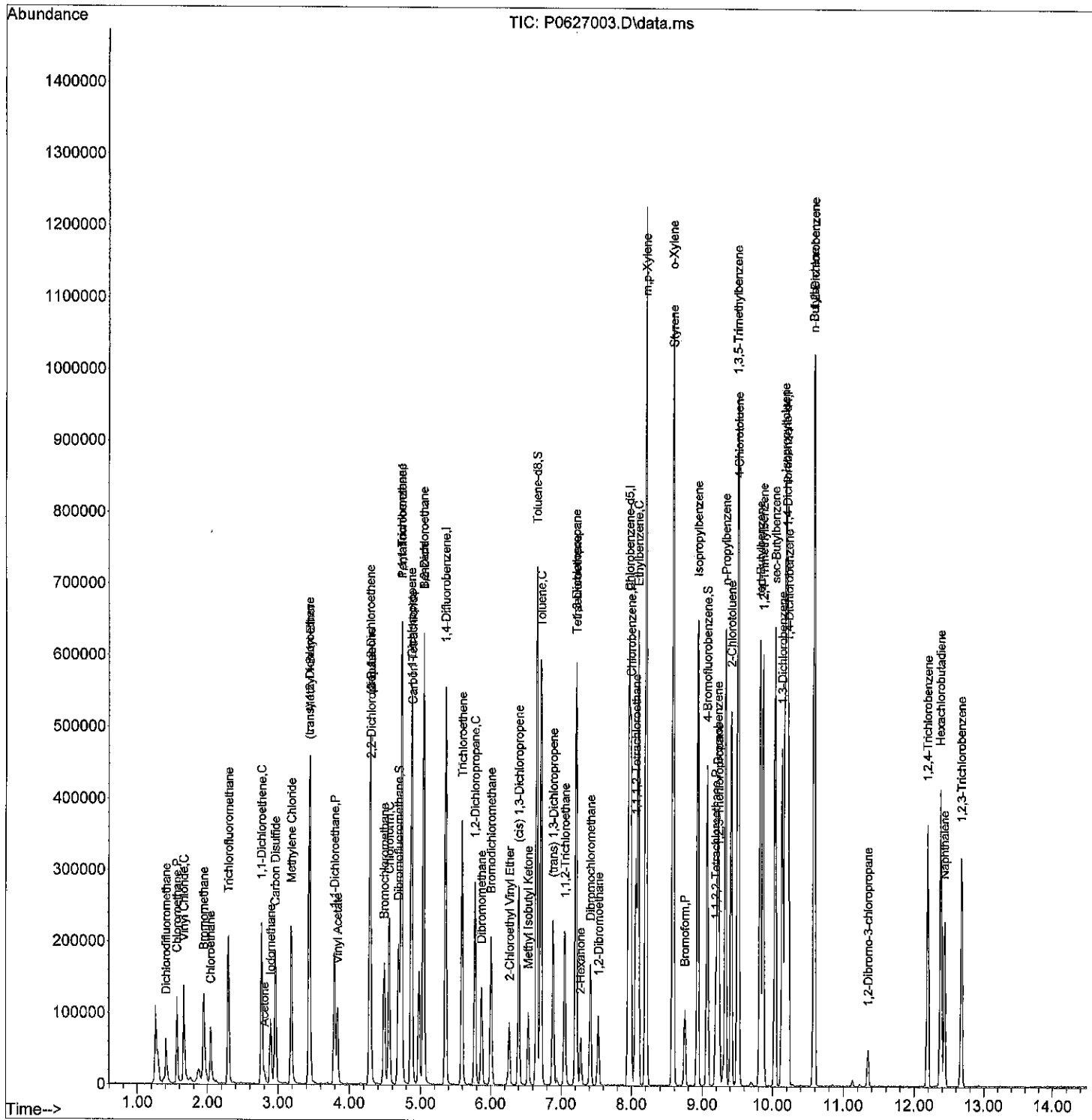
Quant Time: Jun 27 12:37:00 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Tetrachloroethene	7.214	166	106652	56.09	ppb	99
42) 1,3-Dichloropropane	7.208	76	110127	54.00	ppb	100
43) 2-Hexanone	7.275	43	43630	58.80	ppb	95
44) Dibromochloromethane	7.415	129	81556	55.25	ppb	98
45) 1,2-Dibromoethane	7.531	107	58839	52.79	ppb	98
46) Chlorobenzene	7.988	112	254908	51.85	ppb	97
47) 1,1,1,2-Tetrachloroethane	8.061	133	85505	53.29	ppb	99
48) Ethylbenzene	8.092	91	428459	52.09	ppb	100
49) m,p-Xylene	8.201	91	666473	100.96	ppb	99
50) o-Xylene	8.579	91	323478	49.14	ppb	100
51) Styrene	8.585	104	273300	54.26	ppb	100
52) Bromoform	8.750	173	45698	52.67	ppb	100
53) Isopropylbenzene	8.933	105	424805	53.12	ppb	99
56) Bromobenzene	9.219	156	102702	54.27	ppb	99
57) 1,1,2,2-Tetrachloroethane	9.189	83	76489	54.67	ppb	98
58) 1,2,3-Trichloropropane	9.232	75	63001	52.23	ppb	100
59) n-Propylbenzene	9.329	91	508083	56.25	ppb	99
60) 2-Chlorotoluene	9.408	126	111097	52.82	ppb	98
61) 4-Chlorotoluene	9.512	126	112799	52.58	ppb	99
62) 1,3,5-Trimethylbenzene	9.500	105	343410	53.20	ppb	100
63) tert-Butylbenzene	9.817	119	323457	54.12	ppb	99
64) 1,2,4-Trimethylbenzene	9.866	105	341558	52.91	ppb	100
65) sec-Butylbenzene	10.036	105	455516	55.53	ppb	99
66) 1,3-Dichlorobenzene	10.134	146	199497	53.06	ppb	96
67) p-Isopropyltoluene	10.176	119	401570	55.05	ppb	97
68) 1,4-Dichlorobenzene	10.219	146	201880	49.72	ppb	100
69) 1,2-Dichlorobenzene	10.585	146	182821	52.91	ppb	99
70) n-Butylbenzene	10.579	91	362813	56.21	ppb	100
71) 1,2-Dibromo-3-chloropr...	11.347	157	14363	57.30	ppb	98
72) 1,2,4-Trichlorobenzene	12.188	180	117336	54.18	ppb	100
73) Hexachlorobutadiene	12.371	225	71078	51.96	ppb	97
74) Naphthalene	12.432	128	197890	54.07	ppb	99
75) 1,2,3-Trichlorobenzene	12.676	180	104137	53.35	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627003.D  
 Acq On : 27 Jun 2023 11:56 am  
 Operator :  
 Sample : SBD0627S1  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 12:37:00 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1 I	Pentafluorobenzene	50.000	50.000	0.0	96	0.00
2	Dichlorodifluoromethane	50.000	39.172	21.7#	84	0.00
3 P	Chloromethane	50.000	47.685	4.6	98	0.00
4 C	Vinyl Chloride	50.000	47.007	6.0	94	0.00
5	Bromomethane	50.000	38.626	22.7#	79	0.00
6	Chloroethane	50.000	44.219	11.6	88	0.00
7	Trichlorofluoromethane	50.000	45.215	9.6	90	0.00
8 C	1,1-Dichloroethene	50.000	48.052	3.9	91	0.00
9	Acetone	50.000	44.823	10.4	87	0.00
10	Iodomethane	50.000	41.477	17.0	85	0.00
11	Carbon Disulfide	50.000	38.987	22.0#	82	0.00
12	Methylene Chloride	50.000	40.528	18.9	84	0.00
13	(trans) 1,2-Dichloroethene	50.000	47.361	5.3	92	0.00
14	Methyl t-Butyl Ether	50.000	44.630	10.7	81	0.00
15 P	1,1-Dichloroethane	50.000	48.722	2.6	93	0.00
16	Vinyl Acetate	50.000	53.264	-6.5	112	0.00
17	2,2-Dichloropropane	50.000	44.970	10.1	86	0.00
18	(cis) 1,2-Dichloroethene	50.000	48.022	4.0	93	0.00
19	2-Butanone	50.000	49.496	1.0	95	0.00
20	Bromochloromethane	50.000	45.654	8.7	87	0.00
21 C	Chloroform	50.000	45.606	8.8	87	0.00
22	1,1,1-Trichloroethane	50.000	45.243	9.5	90	0.00
23 S	Dibromofluoromethane	50.000	41.914	16.2	81	0.00
24	Carbon Tetrachloride	50.000	47.430	5.1	90	0.00
25	1,1-Dichloropropene	50.000	46.330	7.3	91	0.00
26	Benzene	50.000	45.766	8.5	87	0.00
27	1,2-Dichloroethane	50.000	46.621	6.8	85	0.00
28 I	1,4-Difluorobenzene	50.000	50.000	0.0	86	0.00
29	Trichloroethene	50.000	50.085	-0.2	87	0.00
30 C	1,2-Dichloropropane	50.000	49.243	1.5	89	0.00
31	Dibromomethane	50.000	48.914	2.2	85	0.00
32	Bromodichloromethane	50.000	50.005	-0.0	88	0.00
33	2-Chloroethyl Vinyl Ether	50.000	47.674	4.7	84	0.00
34	(cis) 1,3-Dichloropropene	50.000	50.889	-1.8	86	0.00
35	Methyl Isobutyl Ketone	50.000	52.823	-5.6	92	0.00
36 S	Toluene-d8	50.000	46.922	6.2	81	0.00
37 C	Toluene	50.000	47.199	5.6	84	0.00
38 I	Chlorobenzene-d5	50.000	50.000	0.0	80	0.00
39	(trans) 1,3-Dichloropropene	50.000	52.830	-5.7	79	0.00
40	1,1,2-Trichloroethane	50.000	50.094	-0.2	81	0.00
41	Tetrachloroethene	50.000	52.560	-5.1	89	0.00
42	1,3-Dichloropropane	50.000	52.629	-5.3	80	0.00
43	2-Hexanone	50.000	53.226	-6.5	85	0.00
44	Dibromochloromethane	50.000	52.185	-4.4	80	0.00

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
45	1,2-Dibromoethane	50.000	51.173	-2.3	79 0.00
46 P	Chlorobenzene	50.000	50.810	-1.6	81 0.00
47	1,1,1,2-Tetrachloroethane	50.000	53.057	-6.1	82 0.00
48 C	Ethylbenzene	50.000	50.432	-0.9	82 0.00
49	m,p-Xylene	100.000	96.297	3.7	80 0.00
50	o-Xylene	50.000	48.198	3.6	80 0.00
51	Styrene	50.000	53.069	-6.1	79 0.00
52 P	Bromoform	50.000	53.032	-6.1	80 0.00
53	Isopropylbenzene	50.000	53.068	-6.1	81 0.00
54 S	4-Bromofluorobenzene	50.000	50.514	-1.0	78 0.00
55 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	76 0.01
56	Bromobenzene	50.000	53.110	-6.2	80 0.00
57 P	1,1,2,2-Tetrachloroethane	50.000	55.728	-11.5	80 0.00
58	1,2,3-Trichloropropane	50.000	55.529	-11.1	81 0.00
59	n-Propylbenzene	50.000	55.659	-11.3	85 0.00
60	2-Chlorotoluene	50.000	52.026	-4.1	82 0.00
61	4-Chlorotoluene	50.000	51.911	-3.8	80 0.00
62	1,3,5-Trimethylbenzene	50.000	53.418	-6.8	81 0.00
63	tert-Butylbenzene	50.000	53.999	-8.0	83 0.00
64	1,2,4-Trimethylbenzene	50.000	52.371	-4.7	81 0.00
65	sec-Butylbenzene	50.000	54.739	-9.5	83 0.00
66	1,3-Dichlorobenzene	50.000	52.209	-4.4	82 0.00
67	p-Isopropyltoluene	50.000	54.757	-9.5	82 0.00
68	1,4-Dichlorobenzene	50.000	50.411	-0.8	81 0.00
69	1,2-Dichlorobenzene	50.000	52.565	-5.1	82 0.00
70	n-Butylbenzene	50.000	55.519	-11.0	85 0.00
71	1,2-Dibromo-3-chloropropane	50.000	58.896	-17.8	85 0.00
72	1,2,4-Trichlorobenzene	50.000	55.292	-10.6	88 0.00
73	Hexachlorobutadiene	50.000	54.710	-9.4	91 0.00
74	Naphthalene	50.000	56.383	-12.8	85 0.01
75	1,2,3-Trichlorobenzene	50.000	56.519	-13.0	89 0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.732	168	239488	50.00	ppb	0.00	
28) 1,4-Difluorobenzene	5.360	114	396111	50.00	ppb	0.00	
38) Chlorobenzene-d5	7.964	117	339055	50.00	ppb	0.00	
55) 1,4-Dichlorobenzene-d4	10.201	152	174862	50.00	ppb	0.01	
<b>System Monitoring Compounds</b>							
23) Dibromofluoromethane	4.690	111	103714	41.91	ppb	0.00	
Spiked Amount	50.000	Range 74 - 131	Recovery	=	83.82%		
36) Toluene-d8	6.653	98	434666	46.92	ppb	0.00	
Spiked Amount	50.000	Range 78 - 128	Recovery	=	93.84%		
54) 4-Bromofluorobenzene	9.067	95	139004	50.51	ppb	0.00	
Spiked Amount	50.000	Range 71 - 130	Recovery	=	101.02%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.410	85	58673	39.17	ppb	100	
3) Chloromethane	1.568	50	101674	47.68	ppb	100	
4) Vinyl Chloride	1.666	62	111007	47.01	ppb	99	
5) Bromomethane	1.953	96	73476	38.63	ppb	100	
6) Chloroethane	2.056	64	68277	44.22	ppb	95	
7) Trichlorofluoromethane	2.300	101	148182	45.22	ppb	98	
8) 1,1-Dichloroethene	2.769	61	127786	48.05	ppb	100	
9) Acetone	2.806	43	15226	44.82	ppb	95	
10) Iodomethane	2.897	142	103136	41.48	ppb	99	
11) Carbon Disulfide	2.965	76	227985	38.99	ppb	99	
12) Methylene Chloride	3.190	49	127918	40.53	ppb	98	
13) (trans) 1,2-Dichloroet...	3.434	61	127660	47.36	ppb	99	
14) Methyl t-Butyl Ether	3.446	73	181813	44.63	ppb	96	
15) 1,1-Dichloroethane	3.794	63	159233	48.72	ppb	100	
16) Vinyl Acetate	3.836	43	133656	53.26	ppb	98	
17) 2,2-Dichloropropane	4.300	77	122964	44.97	ppb	99	
18) (cis) 1,2-Dichloroethene	4.287	61	141940	48.02	ppb	98	
19) 2-Butanone	4.294	43	28048	49.50	ppb	97	
20) Bromochloromethane	4.489	130	55162	45.65	ppb	95	
21) Chloroform	4.556	83	146973	45.61	ppb	99	
22) 1,1,1-Trichloroethane	4.732	97	139010	45.24	ppb	95	
24) Carbon Tetrachloride	4.879	117	129822	47.43	ppb	98	
25) 1,1-Dichloropropene	4.867	75	122750	46.33	ppb	99	
26) Benzene	5.043	78	364427	45.77	ppb	100	
27) 1,2-Dichloroethane	5.043	62	100701	46.62	ppb	97	
29) Trichloroethene	5.592	130	102707	50.09	ppb	97	
30) 1,2-Dichloropropane	5.781	63	87113	49.24	ppb	99	
31) Dibromomethane	5.879	174	47579	48.91	ppb	99	
32) Bromodichloromethane	6.007	83	109885	50.01	ppb	95	
33) 2-Chloroethyl Vinyl Ether	6.263	63	34200	47.67	ppb	100	
34) (cis) 1,3-Dichloropropene	6.403	75	131542	50.89	ppb	97	
35) Methyl Isobutyl Ketone	6.531	43	61000	52.82	ppb	95	
37) Toluene	6.714	91	387808	47.20	ppb	100	
39) (trans) 1,3-Dichloropr...	6.885	75	100098	52.83	ppb	99	
40) 1,1,2-Trichloroethane	7.049	97	62541	50.09	ppb	100	



Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

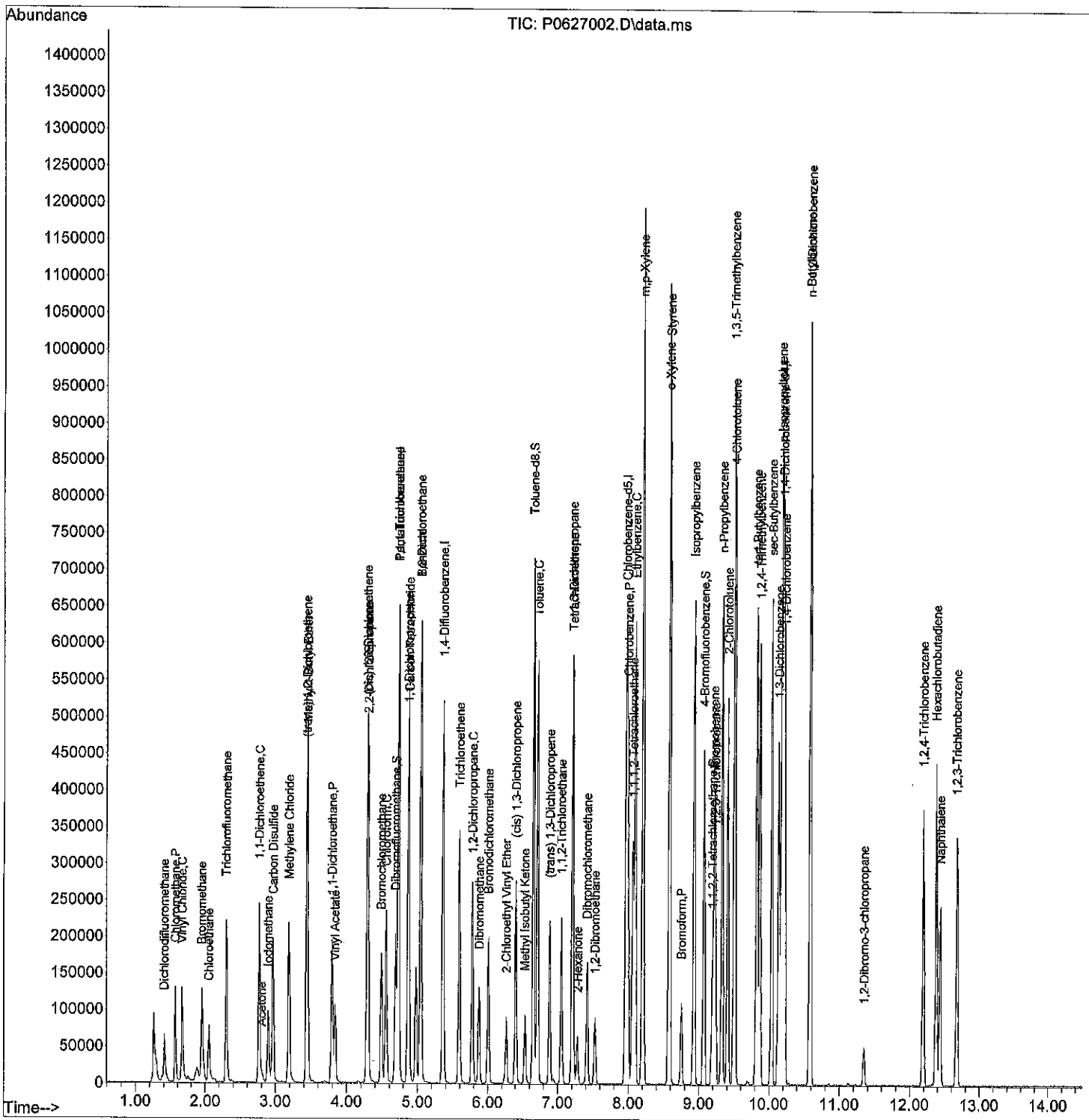
Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P230502S.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Tetrachloroethene	7.214	166	101513	52.56	ppb	98
42) 1,3-Dichloropropane	7.208	76	109018	52.63	ppb	100
43) 2-Hexanone	7.281	43	40119	53.23	ppb	96
44) Dibromochloromethane	7.415	129	78247	52.19	ppb	96
45) 1,2-Dibromoethane	7.525	107	57938	51.17	ppb	99
46) Chlorobenzene	7.988	112	253735	50.81	ppb	98
47) 1,1,1,2-Tetrachloroethane	8.061	133	86482	53.06	ppb	96
48) Ethylbenzene	8.092	91	421452	50.43	ppb	100
49) m,p-Xylene	8.201	91	645986	96.30	ppb	99
50) o-Xylene	8.573	91	322255	48.20	ppb	98
51) Styrene	8.585	104	271517	53.07	ppb	100
52) Bromoform	8.750	173	46737	53.03	ppb	97
53) Isopropylbenzene	8.933	105	431117	53.07	ppb	99
56) Bromobenzene	9.213	156	102691	53.11	ppb	100
57) 1,1,2,2-Tetrachloroethane	9.189	83	79668	55.73	ppb	98
58) 1,2,3-Trichloropropane	9.232	75	68446	55.53	ppb	91
59) n-Propylbenzene	9.329	91	513710	55.66	ppb	98
60) 2-Chlorotoluene	9.408	126	111819	52.03	ppb	97
61) 4-Chlorotoluene	9.512	126	113797	51.91	ppb	99
62) 1,3,5-Trimethylbenzene	9.500	105	352327	53.42	ppb	100
63) tert-Butylbenzene	9.817	119	329737	54.00	ppb	100
64) 1,2,4-Trimethylbenzene	9.866	105	345446	52.37	ppb	98
65) sec-Butylbenzene	10.036	105	458824	54.74	ppb	99
66) 1,3-Dichlorobenzene	10.134	146	200557	52.21	ppb	98
67) p-Isopropyltoluene	10.177	119	408102	54.76	ppb	98
68) 1,4-Dichlorobenzene	10.219	146	209163	50.41	ppb	100
69) 1,2-Dichlorobenzene	10.585	146	185578	52.56	ppb	99
70) n-Butylbenzene	10.579	91	366161	55.52	ppb	99
71) 1,2-Dibromo-3-chloropr...	11.347	157	15085	58.90	ppb	98
72) 1,2,4-Trichlorobenzene	12.188	180	122361	55.29	ppb	98
73) Hexachlorobutadiene	12.371	225	76467	54.71	ppb	98
74) Naphthalene	12.432	128	210849	56.38	ppb	98
75) 1,2,3-Trichlorobenzene	12.670	180	112735	56.52	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20230627\  
 Data File : P0627002.D  
 Acq On : 27 Jun 2023 11:19 am  
 Operator :  
 Sample : SB0627S1 (CCV0627S1)  
 Misc : V4-109-02,V4-109-06  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:35:56 2023  
 Quant Method : D:\MassHunter\GCMS\1\methods\P2305025.M  
 Quant Title :  
 QLast Update : Wed May 03 10:23:36 2023  
 Response via : Initial Calibration





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

June 29, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2306-320B

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on June 26, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: June 29, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-320B  
Project: 5147-006-17

### Case Narrative

Samples were collected on June 26, 2023 and received by the laboratory on June 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: June 29, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-320B  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WCS-2	06-320-02	Soil	6-26-23	6-26-23	
WCS-3	06-320-03	Soil	6-26-23	6-26-23	



Date of Report: June 29, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320B  
 Project: 5147-006-17

**TCLP LEAD**  
**EPA 1311/6010D**

Matrix: TCLP Extract  
 Units: mg/L (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>WCS-2</b>					
Laboratory ID:	06-320-02					
Lead	<b>1.1</b>	0.20	EPA 6010D	6-29-23	6-29-23	

<b>Client ID:</b>	<b>WCS-3</b>					
Laboratory ID:	06-320-03					
Lead	<b>ND</b>	0.20	EPA 6010D	6-29-23	6-29-23	



Date of Report: June 29, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-320B  
 Project: 5147-006-17

**TCLP LEAD  
 EPA 1311/6010D  
 QUALITY CONTROL**

Matrix: TCLP Extract  
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0629TM1					
Lead	ND	0.20	EPA 6010D	6-29-23	6-29-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	06-221-01							
	ORIG	DUP						
Lead	10.3	10.5	NA	NA	NA	NA	1	20

**MATRIX SPIKES**

Laboratory ID:	06-221-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	19.9	19.8	10.0	10.0	10.3	96	94	75-125	1	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference







Analytical Laboratory Testing Services  
 14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
(in working days)

Laboratory Number: **06-320**

7

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Company: **GEODENUNTERS INC.**  
 Project Number: **5147-006-17**  
 Project Name: **PO4 - DCI CLEAN UP ACTION**  
 Project Manager: **ARTHUR JOSHI**  
 Sampled by: **NATHAN SOLOMAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	WCS WGS-1	6/26/23	1230	SOIL	6
2	WCS WGS-2	6/26/23	1235	SOIL	6
3	WCS WGS-3	6/26/23	1240	SOIL	6

NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals <b>LEAD</b>	HEM (oil and grease) 1664	<b>BENZENE 8260</b>	% Moisture
------------	--	----------	--	----------------	----------------------------	----------------------------	--	---------------------------	-----------	--------------------------------	--------------------------------------	----------------------------------	-------------------	-------------------	-------------------------	---------------------------	---------------------	------------

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	6/26/23	1743	ANALYZE AND REPORT BARIUM, CADMIUM, CHROMIUM, LEAD MERCURY, SELENIUM AND SILVER ARSENIC

Received \_\_\_\_\_

Relinquished \_\_\_\_\_

Received \_\_\_\_\_

Relinquished \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Chromatograms with final report  Electronic Data Deliverables (EDDs)

Data Package: Standard  Level III  Level IV

Added 6/28/23. DB (day TAT)

# Sample/Cooler Receipt and Acceptance Checklist

Client: GET

Client Project Name/Number: 5177-006-17

OnSite Project Number: 06-320

Initiated by: MMV

Date Initiated: 6/26/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
1.2 Were the custody seals intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	Temperature: <u>6</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup
			<input type="radio"/> Other	

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.2 Were any sample labels missing or illegible?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.8 Was method 5035A used?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	<input type="radio"/> #	<input type="radio"/>	<input type="radio"/> N/A	1 2 3 4

### Explain any discrepancies:

2.4) # 1-3) WCS on labels

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- TCLP Lead EPA 1311/6010D

TCLP Lead  
EPA 1311/6010D Data



*KH 6,29,23*

Summary

Worksheet Name	B230629A.esws	Created Date/Time (local)	6/29/2023 10:50:59 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	6/29/2023 5:50:59 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B230629A.esws		

Notes



## Results

Solution Label	Pb (220.353 nm)
Blank	0.00 (ppb)
Optional Standard	
Standard 5	100.00 (ppb)
Standard 4	1000.00 (ppb)
Standard 3	10000.00 (ppb)
Standard 2	25000.00 (ppb)
Standard 1	50000.00 (ppb)
SI 100	
SI 1000	
SI 5000	
ICV	1080.68 (ppb)
ICB	-3.83 u (ppb)
LLV	118.60 (ppb)
CCV	10368.99 (ppb)
CCB	8.12 (ppb)
ICSA	0.66 u (ppb)
ICSAB	847.89 (ppb)
MB0629TM1	6.16 u (ppb)
SB0629TM1	4674.51 (ppb)
06-221-01b	5162.21 (ppb)
06-221-01b D	5228.84 (ppb)
06-221-01b L	1137.20 (ppb)
06-221-01b MS	9941.13 (ppb)
06-221-01b MSD	9880.72 (ppb)
06-320-02a	526.74 (ppb)
CCV	10927.35 (ppb)
CCB	-1.32 u (ppb)
06-320-03a	71.19 (ppb)
06-344-01b	64.43 (ppb)
06-344-02b	5.10 u (ppb)
06-344-03b	89.65 (ppb)
06-344-04b	142.59 (ppb)
06-344-05	169.65 (ppb)
06-300-01b(Bott.)	1.52 (ppb)

# Test Report



Agilent Technologies

Solution Label	Pb (220.353 nm)
06-301-01b(Bott.)	-1.50 u (ppb)
CCV	10926.16 (ppb)
CCB	-2.42 u (ppb)



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
4178238928

Expiration Date  
6/30/2024

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 4178 - Roosevelt LF

Generator Name: Port of Anacortes

Generator Site Address: Dakota Creek Industries Shipyard 3rd Street and R

City: Anacortes

County:

State: WA

Zip:

Name of Waste: As and cPAH-Impacted Soil

Estimated Annual Volume: 3000 Tons

### II. Special Waste Department Decision:

Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Deep Well     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Holly M Wilson

Name (Printed): Holly Wilson

Date: 6/30/2023

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Jeff Barcenas

Name (Printed): Jeff Barcenas

Date: 6/30/2023



**APPENDIX D**  
**Soil Disposal Summary and Weight Tickets**

## Disposal Summary, Roosevelt Regional Landfill

Dakota Creek Industries

Anacortes, Washington

Date	Vehicle / Container	Ticket Number	Tonnage
2023-07-05	Truck and Trailer	1015026	28.04
2023-07-05	Truck and Trailer	1015028	30.09
2023-07-05	Truck and Trailer	1015044	31.19
2023-07-05	Truck and Trailer	1015045	30.67
2023-07-05	Truck and Trailer	1015046	31.23
2023-07-06	Truck and Trailer	1015063	30.81
2023-07-06	Truck and Trailer	1015067	28.8
2023-07-06	Truck and Trailer	1015068	31.06
2023-07-06	Truck and Trailer	1015070	31.25
2023-07-06	Truck and Trailer	1015087	28.16
2023-07-06	Truck and Trailer	1015088	29.9
2023-07-06	Truck and Trailer	1015090	29.86
2023-07-06	Truck and Trailer	1015091	30.75
2023-07-07	Truck and Trailer	1015104	32.66
2023-07-07	Truck and Trailer	1015105	31
2023-07-07	Truck and Trailer	1015106	29.74
2023-07-07	Truck and Trailer	1015112	31.49
2023-07-07	Truck and Trailer	1015119	28.44
2023-07-07	Truck and Trailer	1015120	29.63
2023-07-07	Truck and Trailer	1015122	28.76
2023-07-07	Truck and Trailer	1015125	28.88
2023-07-10	Truck and Trailer	1015139	29.95
2023-07-10	Truck and Trailer	1015140	32.28
2023-07-10	Truck and Trailer	1015141	29.29
2023-07-10	Truck and Trailer	1015142	29.89
2023-07-10	Truck and Trailer	1015153	31.11
2023-07-10	Truck and Trailer	1015154	27.34
2023-07-10	Truck and Trailer	1015156	30.47
2023-07-10	Truck and Trailer	1015160	29.14
2023-07-11	Truck and Trailer	1015183	28.23
2023-07-11	Truck and Trailer	1015188	28.1
2023-07-11	Truck and Trailer	1015193	26.67
2023-07-11	Truck and Trailer	1015196	27.66
2023-07-11	Truck and Trailer	1015234	28.36
2023-07-11	Truck and Trailer	1015241	33.24
2023-07-11	Truck and Trailer	1015245	34.37
2023-07-11	Truck and Trailer	1015248	30.98
2023-07-12	Truck and Trailer	1015291	31.06
2023-07-12	Truck and Trailer	1015297	29.27
2023-07-12	Truck and Trailer	1015302	30.64
2023-07-12	Truck and Trailer	1015328	26.61
2023-07-12	Truck and Trailer	1015347	32.29
2023-07-12	Truck and Trailer	1015350	31.94
2023-07-12	Truck and Trailer	1015351	31.17
2023-07-13	Truck and Trailer	1015358	31.98
2023-07-13	Truck and Trailer	1015360	28.75
2023-07-13	Truck and Trailer	1015367	29.27
2023-07-13	Truck and Trailer	1015371	17.83
2023-07-17	Truck and Trailer	1015412	30.15

**Disposal Summary, Roosevelt Regional Landfill**

Dakota Creek Industries

Anacortes, Washington

2023-07-08	Container	4894015	31.39
2023-07-08	Container	4894016	29.86
2023-07-08	Container	4894071	34
2023-07-08	Container	4894086	32.7
2023-07-10	Container	4894152	31.84
2023-07-10	Container	4894153	32.8
2023-07-10	Container	4894154	30.44
2023-07-10	Container	4894162	29.4
2023-07-11	Container	4894244	30.81
2023-07-11	Container	4894256	27.26
2023-07-14	Container	4894539	32.75
2023-07-18	Container	4894758	26.6
2023-07-20	Container	4894891	24.91
2023-07-20	Container	4894902	26.58
2023-07-25	Container	4895184	30.03
2023-08-16	Container	4896990	35.72
2023-08-11	Container	4896657	32.46
2023-08-11	Container	4896658	31.12
2023-08-16	Container	4896989	27.82
2023-08-15	Container	4896919	30.56
2023-08-15	Container	4896915	31.13

**Total: 2100.63**

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015026	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Karyn B.		
<b>DATE/TIME IN</b> 7/5/23 9:07 am		<b>DATE/TIME OUT</b> 7/5/23 9:30 am
<b>VEHICLE</b> 11 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	94,540	NET TONS	28.04	INBOUND
SCALE OUT TARE WEIGHT	38,460	NET WEIGHT	56,080	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.04	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown *PD 29727*

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015028	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Karyn B.		
<b>DATE/TIME IN</b> 7/5/23 9:09 am		<b>DATE/TIME OUT</b> 7/5/23 9:37 am
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	103,180	NET TONS	30.09	INBOUND
SCALE OUT TARE WEIGHT	43,000	NET WEIGHT	60,180	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.09	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015044	<b>CELL</b> VOID 1015035
<b>WEIGHMASTER</b> IN - Karyn B. OUT - Nikole A.		
<b>DATE/TIME IN</b> 7/5/23 1:25 pm	<b>DATE/TIME OUT</b> 7/5/23 1:36 pm	
<b>VEHICLE</b> 828 CLEARCREEK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	104,860	NET TONS	31.19	INBOUND
SCALE OUT TARE WEIGHT	42,480	NET WEIGHT	62,380	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.19	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Nikole Anderson

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015045	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/5/23 1:38 pm	<b>DATE/TIME OUT</b> 7/5/23 1:38 pm	
<b>VEHICLE</b> 11 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	99,800	NET TONS	30.67	INBOUND
TARE OUT TARE WEIGHT	38,460	NET WEIGHT	61,340	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.67	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE

<b>SITE</b>	REGIONAL DISPOSAL INTERMODAL 425-977-4127 3rd and lander -Seattle, WA
<b>CUSTOMER</b>	333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015046	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/5/23 1:41 pm	<b>DATE/TIME OUT</b> 7/5/23 1:41 pm	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	105,460	NET TONS	31.23	INBOUND
TARE OUT TARE WEIGHT	43,000	NET WEIGHT	62,460	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.23	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#



**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015063	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C.		OUT - Karyn B.
<b>DATE/TIME IN</b> 7/6/23 9:00 am		<b>DATE/TIME OUT</b> 7/6/23 9:14 am
<b>VEHICLE</b> 828 CLEARCREEK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	103,060	NET TONS	30.81	INBOUND
SCALE OUT TARE WEIGHT	41,440	NET WEIGHT	61,620	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.81	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

*PO # 29728*

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

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SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015067	CELL
WEIGHMASTER IN - LARRY C. OUT - Karyn B.		
DATE/TIME IN 7/6/23 9:35 am	DATE/TIME OUT 7/6/23 9:52 am	
VEHICLE 11 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 96,300	NET TONS 28.80	INBOUND
SCALE OUT TARE WEIGHT 38,700	NET WEIGHT 57,600	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.80	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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NET AMOUNT
TENDERED
CHANGE
CHECK#

<b>SITE</b>	REGIONAL DISPOSAL INTERMODAL 425-977-4127 3rd and lander -Seattle, WA
<b>CUSTOMER</b>	333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015068	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Karyn B.		
<b>DATE/TIME IN</b> 7/6/23 9:37 am	<b>DATE/TIME OUT</b> 7/6/23 9:54 am	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	105,300	NET TONS	31.06	INBOUND
SCALE OUT TARE WEIGHT	43,180	NET WEIGHT	62,120	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.06	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015070	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/6/23 10:01 am		<b>DATE/TIME OUT</b> 7/6/23 10:12 am
<b>VEHICLE</b> 38 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	103,860	NET TONS	31.25	INBOUND
SCALE OUT TARE WEIGHT	41,360	NET WEIGHT	62,500	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.25	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

**CUSTOMER**  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

**SITE** 01    **TICKET #** 1015087    **CELL** VOID1015086

**WEIGHMASTER** Karyn B.

**DATE/TIME IN** 7/6/23 1:40 pm    **DATE/TIME OUT** 7/6/23 1:40 pm

**VEHICLE** 828 CLEARCREEK    **CONTAINER**

**REFERENCE**

**BILL OF LADING**

SCALE IN GROSS WEIGHT 97,760    NET TONS 28.16    INBOUND  
 TARE OUT TARE WEIGHT 41,440    NET WEIGHT 56,320    INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.16	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006    Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015088	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/6/23 2:03 pm	<b>DATE/TIME OUT</b> 7/6/23 2:03 pm	
<b>VEHICLE</b> 11 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	98,500	NET TONS	29.90	INBOUND
TARE OUT TARE WEIGHT	38,700	NET WEIGHT	59,800	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.90	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015090	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/6/23 2:09 pm		<b>DATE/TIME OUT</b> 7/6/23 2:09 pm
<b>VEHICLE</b> 38 SPRINGBROOK		<b>CONTAINER</b>
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	101,080	NET TONS	29.86	INBOUND
TARE OUT TARE WEIGHT	41,360	NET WEIGHT	59,720	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.86	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015091	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/6/23 2:33 pm	<b>DATE/TIME OUT</b> 7/6/23 2:33 pm	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	104,680	NET TONS	30.75	INBOUND
TARE OUT TARE WEIGHT	43,180	NET WEIGHT	61,500	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.75	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#



<b>SITE</b> REGIONAL DISPOSAL INTERMODAL 425-977-4127 3rd and lander Seattle, WA
<b>CUSTOMER</b> 333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015104	<b>CELL</b>
<b>WEIGHMASTER</b>		
<b>DATE/TIME IN</b> 7/7/23 8:08 am	<b>IN</b> LARRY C.	<b>OUT</b> Karyn B. <b>DATE/TIME OUT</b> 7/7/23 8:18 am
<b>VEHICLE</b> 38 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	106,840	NET TONS	32.66	INBOUND
SCALE OUT TARE WEIGHT	41,520	NET WEIGHT	65,320	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.66	tn	SW-CONT SOLID Origin:ANACORTES/SKAG 100%				

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015105	CELL
WEIGHMASTER LARRY C.		
DATE/TIME IN 7/7/23 8:30 am	DATE/TIME OUT 7/7/23 8:45 am	
VEHICLE 4 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 104,940 NET TONS 31.00 INBOUND  
SCALE OUT TARE WEIGHT 42,940 NET WEIGHT 62,000 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.00	tn	Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
LARRY CUNNINGHAM

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NET AMOUNT
TENDERED
CHANGE
CHECK#

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

**CUSTOMER** 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015106	<b>CELL</b>
<b>WEIGHMASTER</b> LARRY C.		
<b>DATE/TIME IN</b> 7/7/23 8:34 am		<b>DATE/TIME OUT</b> 7/7/23 8:51 am
<b>VEHICLE</b> 828 CLEARCREEK		<b>CONTAINER</b>
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	101,100	NET TONS	29.74	INBOUND
SCALE OUT TARE WEIGHT	41,620	NET WEIGHT	59,480	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.74	tn	SW-CONT SATE Origin:ANACORTES/SKAG 100%				



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 INBOUND - SCALE INDICATOR 96135341= E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

LARRY CUNNINGHAM

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

<b>SITE</b> REGIONAL DISPOSAL INTERMODAL 425-977-4127 3rd and lander Seattle, WA
<b>CUSTOMER</b> 333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

SITE 01	TICKET # 1015112	CELL
WEIGHMASTER		
DATE/TIME IN 7/7/23 9:32 am	IN LARRY C.	OUT Karyn B. DATE/TIME OUT 7/7/23 9:46 am
VEHICLE 11 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 101,860 NET TONS 31.49 INBOUND  
SCALE OUT TARE WEIGHT 38,880 NET WEIGHT 62,980 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.49	tn	SW-COAT SOIL Origin:ANACORTES/SKAG 100%				

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015119	CELL
WEIGHMASTER Karyn B.		
DATE/TIME IN 7/7/23 12:49 pm	DATE/TIME OUT 7/7/23 12:49 pm	
VEHICLE 38 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 98,400	NET TONS 28.44	INBOUND
TARE OUT TARE WEIGHT 41,520	NET WEIGHT 56,880	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.44	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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NET AMOUNT
TENDERED
CHANGE
CHECK#

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

**CUSTOMER**  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015120	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/7/23 1:01 pm		<b>DATE/TIME OUT</b> 7/7/23 1:01 pm
<b>VEHICLE</b> 4 SPRINGBROOK		<b>CONTAINER</b>
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	102,200	NET TONS	29.63	INBOUND
TARE OUT TARE WEIGHT	42,940	NET WEIGHT	59,260	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.63	tn	SW-COMM VOIE Origin:ANACORTES/SKAG 100%				

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
 Karyn Brown

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOU
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CHECK/

SIGNATURE

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

**CUSTOMER**  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015122	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/7/23 1:08 pm	<b>DATE/TIME OUT</b> 7/7/23 1:08 pm	
<b>VEHICLE</b> 828 CLEARCREEK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	99,140	NET TONS	28.76	INBOUND
TARE OUT TARE WEIGHT	41,620	NET WEIGHT	57,520	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.76	tn	SW-CONT SG18 Origin:ANACORTES/SKAG 100%				



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 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015125	CELL
WEIGHMASTER		Karyn B.	
DATE/TIME IN	7/7/23	1:45 pm	DATE/TIME OUT 7/7/23 1:45 pm
VEHICLE	11 SPRINGBROOK	CONTAINER	
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	96,640	NET TONS	28.88	INBOUND
TARE OUT TARE WEIGHT	38,880	NET WEIGHT	57,760	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.88	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0337.10.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

NET AMOUNT
TENDERED
CHANGE
CHECK#

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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015139	CELL
WEIGHMASTER IN - LARRY C.		OUT - Stephanie A.
DATE/TIME IN 7/10/23 8:33 am	DATE/TIME OUT 7/10/23 8:45 am	
VEHICLE 828 CLEARCREEK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 101,200	NET TONS 29.95	INBOUND
SCALE OUT TARE WEIGHT 41,300	NET WEIGHT 59,900	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.95	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

PO # 29733  
 JOB: D332. 70.23  
 ON ACCT DISPOSAL

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015140	CELL
WEIGHMASTER IN - LARRY C.		OUT - Stephanie A.
DATE/TIME IN 7/10/23 8:36 am	DATE/TIME OUT 7/10/23 8:54 am	
VEHICLE 38 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 105,840	NET TONS 32.28	INBOUND
SCALE OUT TARE WEIGHT 41,280	NET WEIGHT 64,560	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.28	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*1332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

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NET AMOUNT
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015141	CELL
WEIGHMASTER		IN - LARRY C.	OUT - Stephanie A.
DATE/TIME IN	7/10/23	8:58 am	DATE/TIME OUT 7/10/23 9:13 am
VEHICLE	4 SPRINGBROOK		CONTAINER
REFERENCE			
BILL OF LADING			

SCALE IN	GROSS WEIGHT	101,380	NET TONS	29.29	INBOUND
SCALE OUT	TARE WEIGHT	42,800	NET WEIGHT	58,580	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.29	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
Stephanie Anderson

NET AMOUNT
TENDERED
CHANGE
CHECK#

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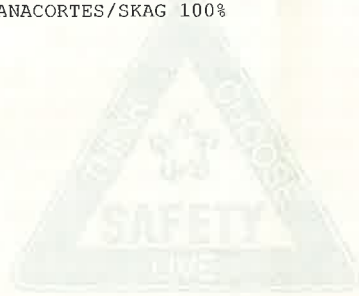
**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015142	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Stephanie A.		
<b>DATE/TIME IN</b> 7/10/23 9:13 am	<b>DATE/TIME OUT</b> 7/10/23 9:24 am	
<b>VEHICLE</b> 11 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	98,500	NET TONS	29.89	INBOUND
SCALE OUT TARE WEIGHT	38,720	NET WEIGHT	59,780	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.89	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0932.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

**CUSTOMER**  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

SITE	TICKET #	CELL
01	1015153	
WEIGHMASTER		
Karyn B.		
DATE/TIME IN	DATE/TIME OUT	
7/10/23 12:42 pm	7/10/23 12:42 pm	
VEHICLE	CONTAINER	
38 SPRINGBROOK		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WRIGHT 103,500 NET TONS 31.11 INBOUND  
 TARE OUT TARE WEIGHT 41,280 NET WEIGHT 62,220 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.11	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
 Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015154	CELL
WEIGHMASTER		Karyn B.	
DATE/TIME IN	7/10/23 12:54 pm	DATE/TIME OUT	7/10/23 12:54 pm
VEHICLE	828 CLEARCREEK	CONTAINER	
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT 95,980 NET TONS 27.34  
TARE OUT TARE WEIGHT 41,300 NET WEIGHT 54,680

INBOUND  
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.34	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

*PO #29733  
JOB 2332.70.23  
DISPOSAL  
ON ACCT*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

NET AMOUNT
TENDERED
CHANGE
CHECK#

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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015156	CELL
WEIGHMASTER		Karyn B.	
DATE/TIME IN	7/10/23	1:11 pm	DATE/TIME OUT 7/10/23 1:11 pm
VEHICLE	4 SPRINGBROOK		CONTAINER
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	103,740	NET TONS	30.47	INBOUND
TARE OUT TARE WEIGHT	42,800	NET WEIGHT	60,940	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.47	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

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INBOUND - SCALE INDICATOR 96135341= E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
Karyn Brown

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015160	CELL
WEIGHMASTER		Karyn B.	
DATE/TIME IN	7/10/23	1:38 pm	DATE/TIME OUT 7/10/23 1:38 pm
VEHICLE	11 SPRINGBROOK	CONTAINER	
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	97,000	NET TONS	29.14	INBOUND
TARE OUT TARE WEIGHT	38,720	NET WEIGHT	58,280	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.14	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*1332.70.23*

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INBOUND - SCALE INDICATOR 96135341= E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015183	CELL
WEIGHMASTER IN - Stephanie A. OUT - LARRY C.		
DATE/TIME IN 7/11/23 8:43 am	DATE/TIME OUT 7/11/23 8:53 am	
VEHICLE 828 CLEARCREEK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 97,740	NET TONS 28.23	INBOUND
SCALE OUT TARE WEIGHT 41,280	NET WEIGHT 56,460	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.23	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

JOB 1332.70.23

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

LARRY CUNNINGHAM

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015188	CELL
WEIGHMASTER IN - Stephanie A. OUT - LARRY C.		
DATE/TIME IN 7/11/23 9:07 am	DATE/TIME OUT 7/11/23 9:17 am	
VEHICLE 38 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 97,640	NET TONS 28.10	INBOUND
SCALE OUT TARE WEIGHT 41,440	NET WEIGHT 56,200	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.10	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

LARRY CUNNINGHAM

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015193	CELL
WEIGHMASTER		IN - Stephanie A. OUT - LARRY C.	
DATE/TIME IN		7/11/23 9:17 am	DATE/TIME OUT
VEHICLE		4 SPRINGBROOK	CONTAINER
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	96,300	NET TONS	26.67	INBOUND
SCALE OUT TARE WEIGHT	42,960	NET WEIGHT	53,340	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
26.67	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*J332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

LARRY CUNNINGHAM

NET AMOUNT
TENDERED
CHANGE
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SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015196	CELL
WEIGHMASTER IN - Stephanie A. OUT - LARRY C.		
DATE/TIME IN 7/11/23 9:35 am	DATE/TIME OUT 7/11/23 9:49 am	
VEHICLE 11 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 93,860	NET TONS 27.66	INBOUND
SCALE OUT TARE WEIGHT 38,540	NET WEIGHT 55,320	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.65	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0337-70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

LARRY CUNNINGHAM

NET AMOUNT
TENDERED
CHANGE
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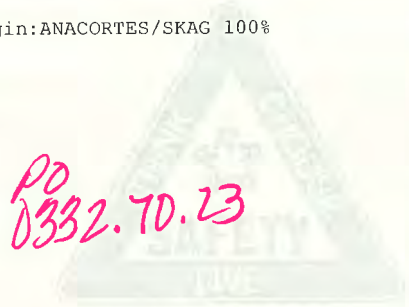
SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015234	CELL
WEIGHMASTER Nikole A.		
DATE/TIME IN 7/11/23 1:03 pm	DATE/TIME OUT 7/11/23 1:03 pm	
VEHICLE 828 CLEARCREEK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 98,000	NET TONS 28.36	INBOUND
TARE OUT TARE WEIGHT 41,280	NET WEIGHT 56,720	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.36	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Nikole Anderson

NET AMOUNT
TENDERED
CHANGE
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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015241	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/11/23 1:23 pm	<b>DATE/TIME OUT</b> 7/11/23 1:23 pm	
<b>VEHICLE</b> 38 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	107,920	NET TONS	33.24	INBOUND
TARE OUT TARE WEIGHT	41,440	NET WEIGHT	66,480	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.24	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.40.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
Karyn Brown

<b>NET AMOUNT</b>
TENDERED
CHANGE
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SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015245	CELL
WEIGHMASTER Karyn B.		
DATE/TIME IN 7/11/23 1:42 pm	DATE/TIME OUT 7/11/23 1:42 pm	
VEHICLE 4 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 111,700	NET TONS 34.37	INBOUND
TARE OUT TARE WEIGHT 42,960	NET WEIGHT 68,740	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
34.37	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

*0332. 10.23*

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

CUSTOMER 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET # 1015248	CELL
WEIGHMASTER Nikole A.		
DATE/TIME IN 7/11/23 2:04 pm	DATE/TIME OUT 7/11/23 2:04 pm	
VEHICLE 11 SPRINGBROOK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 100,500	NET TONS 30.98	INBOUND
TARE OUT TARE WEIGHT 38,540	NET WEIGHT 61,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.98	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*1332.70.23*

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Nikole Anderson

NET AMOUNT
TENDERED
CHANGE
CHECK#

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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015291	<b>CELL</b>
<b>WEIGHMASTER</b> IN - Karyn B. OUT - Stephanie A.		
<b>DATE/TIME IN</b> 7/12/23 8:46 am	<b>DATE/TIME OUT</b> 7/12/23 9:02 am	
<b>VEHICLE</b> 38 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	103,520	NET TONS	31.06	INBOUND
SCALE OUT TARE WEIGHT	41,400	NET WEIGHT	62,120	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.06	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.63*

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

<b>SITE</b>	<b>REGIONAL DISPOSAL INTERMODAL 425-977-4127</b> 3rd and lander -Seattle, WA
<b>CUSTOMER</b>	333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015297	<b>CELL</b>
<b>WEIGHMASTER</b> IN - Karyn B. OUT - Stephanie A.		
<b>DATE/TIME IN</b> 7/12/23 9:13 am	<b>DATE/TIME OUT</b> 7/12/23 9:25 am	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	101,500	NET TONS	29.27	INBOUND
SCALE OUT TARE WEIGHT	42,960	NET WEIGHT	58,540	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.27	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*1332.70.23*

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
 Stephanie Anderson

<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

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**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

SITE 01	TICKET #	1015302	CELL
WEIGHMASTER		IN - Karyn B.	OUT - Stephanie A.
DATE/TIME IN	7/12/23	9:35 am	DATE/TIME OUT 7/12/23 9:53 am
VEHICLE	11 SPRINGBROOK		CONTAINER
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	99,840	NET TONS	30.64	INBOUND
SCALE OUT TARE WEIGHT	38,560	NET WEIGHT	61,280	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.64	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332-70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SIGNATURE

SITE <b>REGIONAL DISPOSAL INTERMODAL 425-977-4127</b> <b>3rd and lander Seattle, WA</b>
CUSTOMER 333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

SITE 01	TICKET # 1015328	CELL
WEIGHMASTER		
DATE/TIME IN 7/12/23 11:50 am	IN Stephanie A. <sup>OUT</sup>	DATE/TIME OUT 7/12/23 12:06 pm
VEHICLE 828 CLEARCREEK	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	94,480	NET TONS	26.61	INBOUND
SCALE OUT TARE WEIGHT	41,260	NET WEIGHT	53,220	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
26.61	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

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INBOUND - SCALE INDICATOR 96135341= E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Nikole Anderson

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015347	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/12/23 1:35 pm	<b>DATE/TIME OUT</b> 7/12/23 1:35 pm	
<b>VEHICLE</b> 38 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

<b>SCALE IN GROSS WEIGHT</b> 105,980	<b>NET TONS</b> 32.29	<b>INBOUND</b>
<b>TARE OUT TARE WEIGHT</b> 41,400	<b>NET WEIGHT</b> 64,580	<b>INVOICE</b>

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.29	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

SITE  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

CUSTOMER  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

SITE	TICKET #	CELL
01	1015350	
WEIGHMASTER		
DATE/TIME IN	Nikole A.	
VEHICLE	7/12/23 1:52 pm	DATE/TIME OUT
REFERENCE	4 SPRINGBROOK	
BILL OF LADING		

SCALE IN GROSS WEIGHT	106,840	NET TONS	31.94	INBOUND
TARE OUT TARE WEIGHT	42,960	NET WEIGHT	63,880	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.94	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				

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INBOUND - SCALE INDICATOR 96135341= E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
 Nikole Anderson

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NET AMOUNT
TENDERED
CHANGE
CHECK#

<b>SITE</b>	<b>REGIONAL DISPOSAL INTERMODAL 425-977-4127</b> 3rd and lander -Seattle, WA
<b>CUSTOMER</b>	333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015351	<b>CELL</b>
<b>WEIGHMASTER</b> Nikole A.		
<b>DATE/TIME IN</b> 7/12/23 2:09 pm	<b>DATE/TIME OUT</b> 7/12/23 2:09 pm	
<b>VEHICLE</b> 11 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	100,900	NET TONS	31.17	INBOUND
TARE OUT TARE WEIGHT	38,560	NET WEIGHT	62,340	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.17	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0392.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Nikole Anderson

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

<b>SITE</b>	REGIONAL DISPOSAL INTERMODAL 425-977-4127 3rd and lander -Seattle, WA
<b>CUSTOMER</b>	333746 Holt Services Inc. PO Box 1659 Milton, WA 98354 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015358	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Stephanie A.		
<b>DATE/TIME IN</b> 7/13/23 8:43 am	<b>DATE/TIME OUT</b> 7/13/23 8:53 am	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	106,920	NET TONS	31.98	INBOUND
SCALE OUT TARE WEIGHT	42,960	NET WEIGHT	63,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.98	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



*0332.70.23*

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INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000

OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#



**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015360	<b>CELL</b>
<b>WEIGHMASTER</b> IN - LARRY C. OUT - Stephanie A.		
<b>DATE/TIME IN</b> 7/13/23 9:03 am		<b>DATE/TIME OUT</b> 7/19/23 9:12 am
<b>VEHICLE</b> 11 SPRINGBROOK		<b>CONTAINER</b>
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	96,060	NET TONS	28.75	INBOUND
SCALE OUT TARE WEIGHT	38,560	NET WEIGHT	57,500	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.75	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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*0332.70.23*

INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Stephanie Anderson

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

**SITE**  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
 3rd and lander -Seattle, WA

**CUSTOMER** 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015367	<b>CELL</b>
<b>WEIGHMASTER</b> Karyn B.		
<b>DATE/TIME IN</b> 7/13/23 12:50 pm	<b>DATE/TIME OUT</b> 7/13/23 12:50 pm	
<b>VEHICLE</b> 4 SPRINGBROOK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT	101,500	NET TONS	29.27	INBOUND
TARE OUT TARE WEIGHT	42,960	NET WEIGHT	58,540	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.27	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



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 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

<b>NET AMOU</b>
<b>TENDEREI</b>

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the contents of this document.

SITE  
**REGIONAL DISPOSAL INTERMODAL 425-977-4127**  
**3rd and lander Seattle, WA**

CUSTOMER  
 333746  
 Holt Services Inc.  
 PO Box 1659  
 Milton, WA 98354  
 Contract:TB-8928

SITE	TICKET #	CELL
01	1015371	
WEIGHMASTER		
DATE/TIME IN		DATE/TIME OUT
Karyn B.		
VEHICLE	7/13/23 1:24 pm	CONTAINER
	11 SPRINGBROOK	7/13/23 1:24 pm
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 74,220 NET TONS 17.83  
 TARE OUT TARE WEIGHT 38,560 NET WEIGHT 35,660

INBOUND  
 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
17.83	tn	SW-COAT SOIL Origin:ANACORTES/SKAG 100%				



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 INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
 OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006  
 Karyn Brown

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERE
CHANGI
CHECK/

**SITE** REGIONAL DISPOSAL INTERMODAL 425-977-4127  
3rd and lander -Seattle, WA

**CUSTOMER** 333746  
Holt Services Inc.  
PO Box 1659  
Milton, WA 98354  
Contract:TB-8928

<b>SITE</b> 01	<b>TICKET #</b> 1015412	<b>CELL</b>
<b>WEIGHMASTER</b> IN - Stephanie A. OUT - Karyn B.		
<b>DATE/TIME IN</b> 7/17/23 9:41 am	<b>DATE/TIME OUT</b> 7/17/23 9:51 am	
<b>VEHICLE</b> 828 CLEARCREEK	<b>CONTAINER</b>	
<b>REFERENCE</b>		
<b>BILL OF LADING</b>		

SCALE IN GROSS WEIGHT 101,540 NET TONS 30.15  
SCALE OUT TARE WEIGHT 41,240 NET WEIGHT 60,300

INBOUND  
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.15	tn	SW-CONT SOIL Origin:ANACORTES/SKAG 100%				



0332.70.23 EWO #01

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR 96135341 = E-Seal 2000  
OUTBOUND - SCALE INDICATOR 1955300033 = E-Seal 2006

Karyn Brown

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<b>NET AMOUNT</b>
TENDERED
CHANGE
CHECK#

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894015

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/8/23 11:38 am

7/8/23 12:08

3516

GCEU426142

Contract:TB8928B

BNSF231000

Scale In GROSS WEIGHT	110,620	NET TONS	31.39
Scale Out TARE WEIGHT	47,840	NET WEIGHT	62,780

INBOUND  
INVOICE

28.00	YD	Tracking QTY
31.39	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894016

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/8/23 11:58 am

7/8/23 12:21

5223

TOLU424194

Contract:TB8928B

BNSF231000

Scale In	GROSS WEIGHT	106,980	NET TONS	29.86
Scale Out	TARE WEIGHT	47,260	NET WEIGHT	59,720

INBOUND  
INVOICE

28.00	YD	Tracking QTY
29.86	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002

OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894071

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/8/23 2:04 pm 7/8/23 2:34  
5223 GCEU431768

Contract:TB8928B

DTTX54154

Scale In	GROSS WEIGHT	115,760	NET TONS	34.00	INBOUND
Scale Out	TARE WEIGHT	47,760	NET WEIGHT	68,000	INVOICE

28.00	YD	Tracking	QTY	
34.00	tn	Cont Soil		Origin:Anacortes 100%

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INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE :  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894086

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/8/23 3:01 pm  
3516

7/8/23 3:33  
GCEU426819

Contract:TB8928B

DTTX54154

Scale In GROSS WEIGHT	111,300	NET TONS	32.70
Scale Out TARE WEIGHT	45,900	NET WEIGHT	65,400

INBOUND  
INVOICE

28.00 YD Tracking QTY  
32.70 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008



Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894152

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/10/23 12:45 pm  
5833

7/10/23 1:09  
GCEU430438

Contract:TB8928B

DTTX458902

Scale In	GROSS WEIGHT	110,260	NET TONS	31.84
Scale Out	TARE WEIGHT	46,580	NET WEIGHT	63,680

INBOUND  
INVOICE

28.00 YD Tracking QTY  
31.84 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE :  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894153

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/10/23 12:55 pm

7/10/23 1:22

3516

TOLU456531

Contract:TB8928B

BNSF231037

Scale In	GROSS WEIGHT	111,200	NET TONS	32.80
Scale Out	TARE WEIGHT	45,600	NET WEIGHT	65,600

INBOUND  
INVOICE

28.00	YD	Tracking QTY
32.80	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
 OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894154

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/10/23 12:57 pm  
5223

7/10/23 1:29  
TOLU440270

Contract:TB8928B

DTTX458902

Scale In	GROSS WEIGHT	108,800	NET TONS	30.44
Scale Out	TARE WEIGHT	47,920	NET WEIGHT	60,880

INBOUND  
INVOICE

28.00 YD Tracking QTY  
30.44 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:

CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894162

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/10/23 1:33 pm 7/10/23 2:00  
2234 TRLU900532

Contract:TB8928B

BNSF231037

Scale In	GROSS WEIGHT	105,060	NET TONS	29.40	INBOUND
Scale Out	TARE WEIGHT	46,260	NET WEIGHT	58,800	INVOICE

28.00	YD	Tracking QTY	
29.40	tn	Cont Soil	Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
 INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
 OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

2A

4894244

Danielle C.

7/11/23 12:48 pm  
5223

7/11/23 1:11  
GCEU432018

Contract:TB8928B

DTTX427622

Scale In	GROSS WEIGHT	107,580	NET TONS	30.81
Scale Out	TARE WEIGHT	45,960	NET WEIGHT	61,620

INBOUND  
INVOICE

28.00	YD	Tracking QTY
30.81	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
 OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:

CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894256

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/11/23 1:11 pm

7/11/23 1:34

3516

TOLU457148

Contract:TB8928B

DTTX427622

Scale In	GROSS WEIGHT	100,220	NET TONS	27.26
Scale Out	TARE WEIGHT	45,700	NET WEIGHT	54,520

INBOUND  
INVOICE

28.00	YD	Tracking QTY
27.26	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894539

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/14/23 9:02 am 7/14/23 9:43  
1565 RBSU200116

Contract:TB8928B

DTX458902

Scale In GROSS WEIGHT	113,300	NET TONS	32.75	INBOUND
Scale Out TARE WEIGHT	47,800	NET WEIGHT	65,500	INVOICE

28.00 YD Tracking QTY  
32.75 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894758

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/18/23 9:34 am

7/18/23 9:44 am

2235

GCEU431071

Contract:TB8928B

BNSF230044

Manual In	GROSS WEIGHT	98,780	NET TONS	26.60
Scale Out	TARE WEIGHT	45,580	NET WEIGHT	53,200

INBOUND  
INVOICE

28.00 YD Tracking QTY

26.60 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002

OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008



CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894891

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/20/23 6:55 am 7/20/23 7:14 am  
2234 TOLU468503

Contract:TB8928B

DTTX458902

Scale In GROSS WEIGHT 95,340 NET TONS 24.91  
Scale Out TARE WEIGHT 45,520 NET WEIGHT 49,820

INBOUND  
INVOICE

28.00 YD Tracking QTY  
24.91 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:

CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4894902

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/20/23 7:06 am

7/20/23 7:41 am

3516

GCEU425690

Contract:TB8928B

DTTX458902

Scale In	GROSS WEIGHT	99,920	NET TONS	26.58
Scale Out	TARE WEIGHT	46,760	NET WEIGHT	53,160

INBOUND  
INVOICE

28.00 YD Tracking QTY  
26.58 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002

OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4895184

Taressa B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

7/25/23 12:12 pm

7/25/23 12:38 pm

5833

TOLU453219

Contract:TB8928B

BNSF230108

Scale In GROSS WEIGHT	108,140	NET TONS	30.03
Scale Out TARE WEIGHT	48,080	NET WEIGHT	60,060

INBOUND  
INVOICE

28.00 YD Tracking QTY

30.03 tn Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:

CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896657

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

8/11/23 1:12 pm

8/11/23 1:37 pm

5227

GCEU440046 ✓

Contract:TB8928B

DTTX428055

Scale In GROSS WEIGHT	110,260	NET TONS	32.46
Scale Out TARE WEIGHT	45,340	NET WEIGHT	64,920

INBOUND  
INVOICE

28.00	YD	Tracking QTY
32.46	tn	Cont Soil

Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.

INBOUND - SCALE INDICATOR B337755370 E-seal #2002

OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:

CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896658

Denise B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

8/11/23 1:13 pm  
7331

8/11/23 1:38 pm  
TOLU466714 ✓

Contract:TB8928B

DTTX428055

Scale In GROSS WEIGHT 108,600 NET TONS 31.12  
Scale Out TARE WEIGHT 46,360 NET WEIGHT 62,240

INBOUND  
INVOICE

28.00 YD Tracking QTY  
31.12 tn Cont Soil Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896919

Danielle C.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

8/15/23 6:44 am  
2235

8/15/23 7:11 am  
TOLU468615 ✓

Contract:TB8928B

BNSF230025

Scale In GROSS WEIGHT 107,420 NET TONS 30.56  
Scale Out TARE WEIGHT 46,300 NET WEIGHT 61,120

INBOUND  
INVOICE

28.00 YD Tracking QTY  
30.56 tn Cont Soil Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896915 ✓

Danielle C.

8/15/23 6:49 am  
5227

8/15/23 7:07 am  
GCEU435316 ✓

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

Contract:TB8928B

BNSF230025

Scale In GROSS WEIGHT	111,000	NET TONS	31.13
Scale Out TARE WEIGHT	48,740	NET WEIGHT	62,260

INBOUND  
INVOICE

28.00	YD	Tracking QTY	
31.13	tn	Cont Soil	Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896989 ✓

Taressa B.

8/16/23 8:31 am  
5225

8/16/23 8:51 am  
TOLU468717 ✓

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

Contract:TB8928B

BNSF231163

Scale In GROSS WEIGHT	95,560	NET TONS	27.82
Scale Out TARE WEIGHT	39,920	NET WEIGHT	55,640

INBOUND  
INVOICE

28.00	YD	Tracking QTY	
27.82	tn	Cont Soil	Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:  
CHECK :

Everett Incl. Snohomish County --  
WA ROOSEVELT , WA

2A

4896990 ✓

Taressa B.

690532 - Holt Services Inc.  
PO Box 1659  
Milton, WA 98354

8/16/23 8:40 am  
3517

8/16/23 8:57 am  
TOLU424266 ✓

Contract:TB8928B

BNSF231163

Scale In	GROSS WEIGHT	112,620	NET TONS	35.72
Scale Out	TARE WEIGHT	41,180	NET WEIGHT	71,440

INBOUND  
INVOICE

28.00	YD	Tracking	QTY	
35.72	tn	Cont Soil		Origin:Anacortes 100%

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by chapter 15.80 RCW administered by the Washington State Department of Agriculture.  
INBOUND - SCALE INDICATOR B337755370 E-seal #2002  
OUTBOUND - SCALE INDICATOR 56656605KM E-seal #2008

CHANGE:  
CHECK :

**APPENDIX E**  
**Laboratory Reports for Soil Verification Samples**





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

June 27, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2306-321

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on June 26, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: June 27, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-321  
Project: 5147-006-17

### Case Narrative

Samples were collected on June 26, 2023 and received by the laboratory on June 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-321  
 Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
S-2-2	06-321-01	Soil	6-26-23	6-26-23	
S-3-1.25	06-321-02	Soil	6-26-23	6-26-23	
S-4-0.5	06-321-03	Soil	6-26-23	6-26-23	
S-5-0.5	06-321-04	Soil	6-26-23	6-26-23	
S-6-0.5	06-321-05	Soil	6-26-23	6-26-23	
S-7-1.25	06-321-06	Soil	6-26-23	6-26-23	
S-8-2	06-321-07	Soil	6-26-23	6-26-23	
S-9-2	06-321-08	Soil	6-26-23	6-26-23	
S-10-2	06-321-09	Soil	6-26-23	6-26-23	
S-13-1.75	06-321-10	Soil	6-26-23	6-26-23	
B-8-6	06-321-11	Soil	6-26-23	6-26-23	



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-321  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-2-2</b>					
Laboratory ID:	06-321-01					
Arsenic	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>28</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-3-1.25</b>					
Laboratory ID:	06-321-02					
Arsenic	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>57</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-4-0.5</b>					
Laboratory ID:	06-321-03					
Arsenic	<b>ND</b>	11	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>66</b>	2.7	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-5-0.5</b>					
Laboratory ID:	06-321-04					
Arsenic	<b>ND</b>	11	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>130</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-6-0.5</b>					
Laboratory ID:	06-321-05					
Arsenic	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>76</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-7-1.25</b>					
Laboratory ID:	06-321-06					
Arsenic	<b>63</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>42</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-8-2</b>					
Laboratory ID:	06-321-07					
Arsenic	<b>16</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>36</b>	2.6	EPA 6010D	6-27-23	6-27-23	



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-321  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-9-2</b>					
Laboratory ID:	06-321-08					
Arsenic	<b>47</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>48</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-10-2</b>					
Laboratory ID:	06-321-09					
Arsenic	<b>ND</b>	11	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>40</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>S-13-1.75</b>					
Laboratory ID:	06-321-10					
Arsenic	<b>ND</b>	10	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>57</b>	2.6	EPA 6010D	6-27-23	6-27-23	

<b>Client ID:</b>	<b>B-8-6</b>					
Laboratory ID:	06-321-11					
Arsenic	<b>ND</b>	11	EPA 6010D	6-27-23	6-27-23	
Nickel	<b>16</b>	2.7	EPA 6010D	6-27-23	6-27-23	



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-321  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0627SM1					
Arsenic	ND	10	EPA 6010D	6-27-23	6-27-23	
Nickel	ND	2.5	EPA 6010D	6-27-23	6-27-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	06-292-02							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	24.2	23.2	NA	NA	NA	4	20	

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit	Flags
Laboratory ID:	06-292-02									
Arsenic	96.4	97.2	100	100	ND	96	97	75-125	1	20
Nickel	118	117	100	100	24.2	94	93	75-125	1	20



Date of Report: June 27, 2023  
 Samples Submitted: June 26, 2023  
 Laboratory Reference: 2306-321  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV062723B	1.00	0.971	2.9	+/- 10%
Nickel	ICV062723B	1.00	1.04	-4.0	+/- 10%
Arsenic	LLV062723B	0.0500	0.0484	3.2	+/- 20%
Nickel	LLV062723B	0.0200	0.0215	-7.5	+/- 20%
Arsenic	CCV1062723B	5.00	5.03	-0.60	+/- 10%
Nickel	CCV1062723B	2.00	1.98	1.0	+/- 10%
Arsenic	CCV2062723B	5.00	5.00	0	+/- 10%
Nickel	CCV2062723B	2.00	1.98	1.0	+/- 10%
Arsenic	CCV3062723B	5.00	4.96	0.80	+/- 10%
Nickel	CCV3062723B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV4062723B	5.00	4.96	0.80	+/- 10%
Nickel	CCV4062723B	2.00	1.97	1.5	+/- 10%
Arsenic	CCV5062723B	5.00	4.90	2.0	+/- 10%
Nickel	CCV5062723B	2.00	1.97	1.5	+/- 10%
Arsenic	CCV6062723B	5.00	5.05	-1.0	+/- 10%
Nickel	CCV6062723B	2.00	1.96	2.0	+/- 10%



Date of Report: June 27, 2023  
Samples Submitted: June 26, 2023  
Laboratory Reference: 2306-321  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
S-2-2	06-321-01	4	6-27-23
S-3-1.25	06-321-02	4	6-27-23
S-4-0.5	06-321-03	7	6-27-23
S-5-0.5	06-321-04	6	6-27-23
S-6-0.5	06-321-05	3	6-27-23
S-7-1.25	06-321-06	5	6-27-23
S-8-2	06-321-07	4	6-27-23
S-9-2	06-321-08	4	6-27-23
S-10-2	06-321-09	5	6-27-23
S-13-1.75	06-321-10	4	6-27-23
B-8-6	06-321-11	8	6-27-23







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





**Mw Onsite Environmental Inc.**  
 Analytical Laboratory Testing Services  
 14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
 (in working days)  
 (Check One)

Same Day  2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: **06-321**

Company: **GEOTECHNICAL INC**  
 Project Number: **5147-0510-17**  
 Project Name: **DBA-MI CLEANUP ACTION**  
 Project Manager: **AIRBUSH JOSEPH**  
 Sampled by: **NATHAN SOLOMON**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	S-2-2	6-26-23	0835	SOIL	1
2	S-3-1.25		0820		1
3	S-4-0.5		0805		1
4	S-5-0.5		0815		1
5	S-6-0.5		0915		1
6	S-7-1.25		0920		1
7	S-8-2		0835		1
8	S-9-2		0850		1
9	S-10-2		1005		1
10	S-13-1.75		1530		1

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	06/26/23	17:43	

Company	Date	Time	Comments/Special Instructions
GEI	06/26/23	17:43	

Parameter	1	2	3	4	5	6	7	8	9	10
NWTPH-HCID										
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )										
NWTPH-Gx										
NWTPH-Dx (SG Clean-up <input type="checkbox"/> )										
Volatiles 8260										
Halogenated Volatiles 8260										
EDB EPA 8011 (Waters Only)										
Semivolatiles 8270/SIM (with low-level PAHs)										
PAHs 8270/SIM (low-level)										
PCBs 8082										
Organochlorine Pesticides 8081										
Organophosphorus Pesticides 8270/SIM										
Chlorinated Acid Herbicides 8151										
Total RCRA Metals										
Total MTCA Metals										
TCLP Metals										
HEM (oil and grease) 1664										
<b>BENZENE</b>										
<b>As</b>	X	X	X	X	X	X	X	X	X	X
<b>Ni</b>	X	X	X	X	X	X	X	X	X	X
% Moisture										

Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)



**M/onsite Environmental Inc.**

Analytical Laboratory Testing Services  
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Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

**Turnaround Request**  
(in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number: **06-321**

Company: <b>GEOENGINEERS INC.</b>		Project Number: <b>5147-006-17</b>			Project Name: <b>POA - DCI CLEAN UP ACTION</b>		Project Manager: <b>AHIBAIT JOSH</b>		Sampled by: <b>NATHAN SOLOMON</b>	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		<input type="checkbox"/> NWT-TPH-HCID <input type="checkbox"/> NWT-TPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> <input type="checkbox"/> NWT-TPH-Gx <input type="checkbox"/> NWT-TPH-Dx (SG Clean-up <input type="checkbox"/> <input type="checkbox"/> Volatiles 8260 <input type="checkbox"/> Halogenated Volatiles 8260 <input type="checkbox"/> EDB EPA 8011 (Waters Only) <input type="checkbox"/> Semivolatiles 8270/SIM (with low-level PAHs) <input type="checkbox"/> PAHs 8270/SIM (low-level) <input type="checkbox"/> PCBs 8082 <input type="checkbox"/> Organochlorine Pesticides 8081 <input type="checkbox"/> Organophosphorus Pesticides 8270/SIM <input type="checkbox"/> Chlorinated Acid Herbicides 8151 <input type="checkbox"/> Total RCRA Metals <input type="checkbox"/> Total MTCA Metals <input type="checkbox"/> TCLP Metals <input type="checkbox"/> HEM (oil and grease) 1664 <input type="checkbox"/> BENZENE <input type="checkbox"/> AS <input type="checkbox"/> Ni <input type="checkbox"/> % Moisture			
<b>11</b>	<b>B-8-6</b>	<b>6/26/23</b>	<b>1220</b>	<b>SOIL</b>	1					
	<del>WGS-1</del>		1230		5					
	<del>WGS-2</del>		1235		5					
	<del>WGS-3</del>		1240		5					

WGS SAMPLES TO BE RUN AGAIN  
S & B SAMPLES TO BE RUN 1 DAY

Signature: \_\_\_\_\_

Company: **GEI** **OSRE**

Date: **6/26/23** Time: **17:43**

Comments/Special Instructions

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)

# Sample/Cooler Receipt and Acceptance Checklist

Client: GET

Client Project Name/Number: 5147-006-17

OnSite Project Number: 06-321

Initiated by: *MMV*

Date Initiated: 6/28/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input type="radio"/> No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<input type="radio"/> N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input type="radio"/> N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>6</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input type="radio"/> N/A					
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other		

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1	2	3	4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1	2	3	4

### Explain any discrepancies:

- 1 - Discuss issue in Case Narrative
- 3 - Client contacted to discuss problem
- 2 - Process Sample As-is
- 4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data



*KA 6/27/23*

### Summary

Worksheet Name	B230627A.esws	Created Date/Time (local)	6/27/2023 9:47:55 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	6/27/2023 4:47:55 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\05MAY21\B230627A.esws		

### Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	971.05 (ppb)	1037.30 (ppb)
ICB	8.18 (ppb)	-0.04 u (ppb)
LLV	48.39 (ppb)	21.51 (ppb)
CCV	5034.54 (ppb)	1983.96 (ppb)
CCB	4.56 u (ppb)	-0.26 u (ppb)
ICSA	25.26 (ppb)	0.65 (ppb)
ICSAB	2316.82 (ppb)	821.72 (ppb)
MB0627SM1	0.24 u (ppb)	-0.05 u (ppb)
SB0627SM1	1920.90 (ppb)	2000.53 (ppb)
06-292-02	83.92 (ppb)	483.67 (ppb)
06-292-02 D	92.24 (ppb)	464.07 (ppb)
06-292-02 L	20.87 (ppb)	103.14 (ppb)
06-292-02 MS	1927.36 (ppb)	2356.90 (ppb)
06-292-02 MSD	1943.57 (ppb)	2339.58 (ppb)
06-292-01	216.40 (ppb)	492.18 (ppb)
CCV	5004.20 (ppb)	1984.28 (ppb)
CCB	5.05 u (ppb)	0.21 (ppb)
06-320-01a	48.81 (ppb)	1265.29 (ppb)
06-320-02a	549.91 (ppb)	616.96 (ppb)
06-320-03a	194.17 (ppb)	756.49 (ppb)
06-292-03	67.03 (ppb)	344.88 (ppb)
06-295-03	67.99 (ppb)	25968.21 o (ppb)
06-295-03 X 20	-8.01 u (ppb)	1575.78 (ppb)
BLK	-4.62 u (ppb)	-0.83 u (ppb)
MB0627WH1	1.09 u (ppb)	-0.54 u (ppb)



# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
SB0627WH1	1982.61 (ppb)	1940.98 (ppb)
06-107-04	9.89 u (ppb)	23.84 (ppb)
CCV	4961.05 (ppb)	1987.12 (ppb)
CCB	3.91 u (ppb)	-0.33 u (ppb)
06-107-04 D	12.23 (ppb)	22.96 (ppb)
06-107-04 L	3.44 u (ppb)	4.40 (ppb)
06-107-04 MS	1938.78 (ppb)	1937.61 (ppb)
06-107-04 MSD	1905.80 (ppb)	1927.13 (ppb)
06-293-01a	-1.13 u (ppb)	50.62 (ppb)
06-290-01(1/50ml)	-3.45 u (ppb)	8.55 (ppb)
06-290-01(25/50ml)	22.45 (ppb)	137.98 (ppb)
06-322-01a	1.11 u (ppb)	1.04 u (ppb)
06-295-01	-6.68 u (ppb)	265.40 (ppb)
06-295-02	3.13 u (ppb)	81.25 (ppb)
CCV	4962.34 (ppb)	1971.18 (ppb)
CCB	-4.40 u (ppb)	0.41 u (ppb)
06-321-01(0626SM1)	32.07 (ppb)	535.15 (ppb)
06-321-02	87.48 (ppb)	1099.66 (ppb)
06-321-03	20.79 (ppb)	1234.31 (ppb)
06-321-04	14.17 (ppb)	2424.34 (ppb)
06-321-05	14.96 (ppb)	1470.01 (ppb)
06-321-06	1202.09 (ppb)	796.70 (ppb)
06-321-07	300.12 (ppb)	693.14 (ppb)
06-321-08	910.12 (ppb)	926.92 (ppb)
06-321-09	77.19 (ppb)	763.07 (ppb)
06-321-10	56.98 (ppb)	1092.29 (ppb)
CCV	4901.82 (ppb)	1968.13 (ppb)
CCB	10.53 (ppb)	-0.65 u (ppb)
06-321-11	32.78 (ppb)	303.05 (ppb)
CCV	5050.35 (ppb)	1962.24 (ppb)
CCB	5.06 u (ppb)	0.29 u (ppb)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

June 29, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2306-359

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on June 28, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: June 29, 2023  
Samples Submitted: June 28, 2023  
Laboratory Reference: 2306-359  
Project: 5147-006-17

### Case Narrative

Samples were collected on June 27, 2023 and received by the laboratory on June 28, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: June 29, 2023  
Samples Submitted: June 28, 2023  
Laboratory Reference: 2306-359  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
B-1-1	06-359-01	Soil	6-27-23	6-28-23	
B-2-1	06-359-02	Soil	6-27-23	6-28-23	



Date of Report: June 29, 2023  
 Samples Submitted: June 28, 2023  
 Laboratory Reference: 2306-359  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-1-1</b>					
Laboratory ID:	06-359-01					
Arsenic	<b>ND</b>	11	EPA 6010D	6-28-23	6-28-23	
Nickel	<b>27</b>	2.6	EPA 6010D	6-28-23	6-28-23	

<b>Client ID:</b>	<b>B-2-1</b>					
Laboratory ID:	06-359-02					
Arsenic	<b>ND</b>	11	EPA 6010D	6-28-23	6-28-23	
Nickel	<b>34</b>	2.6	EPA 6010D	6-28-23	6-28-23	



Date of Report: June 29, 2023  
 Samples Submitted: June 28, 2023  
 Laboratory Reference: 2306-359  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0628SM1					
Arsenic	<b>ND</b>	10	EPA 6010D	6-28-23	6-28-23	
Nickel	<b>ND</b>	2.5	EPA 6010D	6-28-23	6-28-23	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	06-292-02							
	ORIG	DUP						
Arsenic	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	20
Nickel	<b>25.2</b>	<b>21.8</b>	NA	NA	NA	NA	14	20

**MATRIX SPIKES**

Laboratory ID:	06-292-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	<b>101</b>	<b>93.3</b>	100	100	ND	<b>101</b>	<b>93</b>	75-125	8	20
Nickel	<b>116</b>	<b>107</b>	100	100	25.2	<b>91</b>	<b>82</b>	75-125	8	20



Date of Report: June 29, 2023  
 Samples Submitted: June 28, 2023  
 Laboratory Reference: 2306-359  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV062123B	1.00	1.01	-1.0	+/- 10%
Nickel	ICV062123B	1.00	1.04	-4.0	+/- 10%
Arsenic	LLV062123B	0.0500	0.0476	4.8	+/- 20%
Nickel	LLV062123B	0.0200	0.0216	-8.0	+/- 20%
Arsenic	CCV1062123B	5.00	5.13	-2.6	+/- 10%
Nickel	CCV1062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV2062123B	5.00	5.14	-2.8	+/- 10%
Nickel	CCV2062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV3062123B	5.00	5.25	-5.0	+/- 10%
Nickel	CCV3062123B	2.00	2.02	-1.0	+/- 10%
Arsenic	CCV4062123B	5.00	5.19	-3.8	+/- 10%
Nickel	CCV4062123B	2.00	2.02	-1.0	+/- 10%



Date of Report: June 29, 2023  
Samples Submitted: June 28, 2023  
Laboratory Reference: 2306-359  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
B-1-1	06-359-01	5	6-28-23
B-2-1	06-359-02	5	6-28-23







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





# Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-17

OnSite Project Number: 06-359

Initiated by: KP

Date Initiated: 6/28/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	<input checked="" type="radio"/> No	Temperature: <u>9.7</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data



*KH*      *6/28, 23*

### Summary

Worksheet Name	B230628A.esws	Created Date/Time (local)	6/28/2023 9:26:59 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	6/28/2023 4:26:59 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\05MAY21\B230628A.esws		

### Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	-- (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
Si 100		
Si 1000		
Si 5000		
ICV	1007.26 (ppb)	1044.93 Q (ppb)
ICB	9.84 u (ppb)	-0.41 Zu (ppb)
LLV	47.59 (ppb)	21.56 Q (ppb)
CCV	5126.58 (ppb)	1990.10 Q (ppb)
CCB	0.95 u (ppb)	1.07 Zu (ppb)
ICSA	33.80 (ppb)	-0.07 u (ppb)
ICSAB	2437.89 (ppb)	824.65 (ppb)
MB0628SM1	-5.90 u (ppb)	0.77 u (ppb)
SB0628SM1	2027.01 (ppb)	2039.61 (ppb)
06-292-02	116.40 (ppb)	502.90 (ppb)
06-292-02 D	113.95 (ppb)	436.29 (ppb)
06-292-02 L	15.85 (ppb)	104.65 (ppb)
06-292-02 MS	2019.39 (ppb)	2326.28 (ppb)
06-292-02 MSD	1865.96 (ppb)	2142.44 (ppb)
SPK# 3	-2.54 u (ppb)	1.65 (ppb)
CCV	5137.24 (ppb)	1991.72 (ppb)
CCB	1.45 u (ppb)	0.12 u (ppb)
06-292-01	230.28 (ppb)	499.00 (ppb)
06-292-03	76.46 (ppb)	375.35 (ppb)
06-295-03	50.69 (ppb)	24922.33 o (ppb)
06-325-01a	60.22 (ppb)	428.42 (ppb)
06-326-01a	95.18 (ppb)	244.40 (ppb)
06-327-01a	91.98 (ppb)	103.65 (ppb)
06-325-01a	67.07 (ppb)	428.89 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
06-295-03 X 20	7.41 (ppb)	1478.99 (ppb)
06-352-01a	103.69 (ppb)	295.78 (ppb)
06-352-02a	76.85 (ppb)	297.05 (ppb)
CCV	5247.15 (ppb)	2020.11 (ppb)
CCB	1.22 u (ppb)	-1.06 u (ppb)
06-352-03a	112.00 (ppb)	441.90 (ppb)
06-352-04a	77.45 (ppb)	450.19 (ppb)
06-352-05a	70.67 (ppb)	403.78 (ppb)
06-354-01	107.02 (ppb)	394.62 (ppb)
06-354-02	115.83 (ppb)	532.01 (ppb)
06-354-03	79.93 (ppb)	449.56 (ppb)
06-359-01	69.73 (ppb)	516.87 (ppb)
06-359-02	86.35 (ppb)	653.11 (ppb)
CCV	5192.21 (ppb)	2018.11 (ppb)
Si CCV	7.80 Su (ppb)	0.32 Su (ppb)





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 3, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2306-393

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on June 30, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 3, 2023  
Samples Submitted: June 30, 2023  
Laboratory Reference: 2306-393  
Project: 5147-006-17

### Case Narrative

Samples were collected on June 29, 2023 and received by the laboratory on June 30, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 3, 2023  
Samples Submitted: June 30, 2023  
Laboratory Reference: 2306-393  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
S-7A-1.25	06-393-01	Soil	6-29-23	6-30-23	



Date of Report: July 3, 2023  
 Samples Submitted: June 30, 2023  
 Laboratory Reference: 2306-393  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-7A-1.25</b>					
Laboratory ID:	06-393-01					
Arsenic	<b>58</b>	11	EPA 6010D	6-30-23	6-30-23	
Nickel	<b>40</b>	2.6	EPA 6010D	6-30-23	6-30-23	



Date of Report: July 3, 2023  
 Samples Submitted: June 30, 2023  
 Laboratory Reference: 2306-393  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0630SM2					
Arsenic	ND	10	EPA 6010D	6-30-23	6-30-23	
Nickel	ND	2.5	EPA 6010D	6-30-23	6-30-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	06-380-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	14.6	14.9	NA	NA	NA	2	20	

**MATRIX SPIKES**

Laboratory ID:	06-380-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	93.6	94.7	100	100	ND	94	95	75-125	1	20
Nickel	108	110	100	100	14.6	94	96	75-125	2	20



Date of Report: July 3, 2023  
 Samples Submitted: June 30, 2023  
 Laboratory Reference: 2306-393  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

<b>Analyte</b>	<b>Lab ID</b>	<b>True Value (ppm)</b>	<b>Calc. Value</b>	<b>Percent Difference</b>	<b>Control Limits</b>
Arsenic	ICV062123B	1.00	0.975	2.5	+/- 10%
Nickel	ICV062123B	1.00	1.03	-3.0	+/- 10%
Arsenic	LLV062123B	0.0500	0.0576	-15	+/- 20%
Nickel	LLV062123B	0.0200	0.0197	1.5	+/- 20%
Arsenic	CCV1062123B	5.00	5.06	-1.2	+/- 10%
Nickel	CCV1062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV2062123B	5.00	4.97	0.60	+/- 10%
Nickel	CCV2062123B	2.00	1.97	1.5	+/- 10%
Arsenic	CCV3062123B	5.00	4.95	1.0	+/- 10%
Nickel	CCV3062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV4062123B	5.00	5.04	-0.80	+/- 10%
Nickel	CCV4062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV5062123B	5.00	4.92	1.6	+/- 10%
Nickel	CCV5062123B	2.00	1.97	1.5	+/- 10%
Arsenic	CCV6062123B	5.00	4.97	0.60	+/- 10%
Nickel	CCV6062123B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV7062123B	5.00	4.96	0.80	+/- 10%
Nickel	CCV7062123B	2.00	1.98	1.0	+/- 10%



Date of Report: July 3, 2023  
Samples Submitted: June 30, 2023  
Laboratory Reference: 2306-393  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
S-7A-1.25	06-393-01	6	6-30-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference







**MVA Onsite Environmental Inc.**  
 Analytical Laboratory Testing Services  
 14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Company: **GEOENGINEERS**  
 Project Number: **5147-006-17**  
 Project Name: **PA-DCI Clean Up Actual**  
 Project Manager: **ARBIT JOSE**  
 Sampled by: **NATHAN SOLOWAN**

Turnaround Request (in working days)  
 (Check One)  
 Same Day  
 1 Day  
 2 Days  
 3 Days  
 Standard (7 Days)  
 \_\_\_\_\_ (other)

Laboratory Number: **06-393**

Lab ID	Sample Identification
1	S-7A-1.25

Date Sampled	Time Sampled	Matrix	Number of Containers
6.29.25	13:05	Soil	1

Analysis	Result
NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	
NWTPH-Gx	
NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	
Volatiles 8260	
Halogenated Volatiles 8260	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	06.30.25	13:32	
	GEI	06.30.25	13:32	
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date	Reviewed/Date			

Data Package: Standard  Level III  Level IV   
 Chromatograms with final report  Electronic Data Deliverables (EDDs)

# Sample/Cooler Receipt and Acceptance Checklist

Client: GER

Client Project Name/Number: 5147-006-17

OnSite Project Number: 06-393

Initiated by: AMV

Date Initiated: 6/30/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	<input checked="" type="radio"/> No	Temperature: <u>22</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data



*KH 6,30,23*

Summary

Worksheet Name	B230630A.esws	Created Date/Time (local)	6/30/2023 9:29:00 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	6/30/2023 4:29:00 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230630A.esws		

Notes



Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	975.22 (ppb)	1034.43 (ppb)
ICB	7.73 (ppb)	0.37 u (ppb)
LLV	50.76 (ppb)	19.73 (ppb)
CCV	5058.78 (ppb)	1988.84 (ppb)
CCB	7.00 (ppb)	-0.51 u (ppb)
ICSA	31.58 (ppb)	-2.13 u (ppb)
ICSAB	2332.54 (ppb)	802.71 (ppb)
MB0630SM1	-3.01 u (ppb)	0.27 u (ppb)
SB0830SM1	1927.40 (ppb)	2020.08 (ppb)
06-384-01	76.08 (ppb)	442.35 (ppb)
06-384-01 D	84.63 (ppb)	395.75 (ppb)
06-384-01 L	8.90 (ppb)	92.76 (ppb)
06-384-01 MS	1787.67 (ppb)	2127.55 (ppb)
06-384-01 MSD	1692.85 (ppb)	1982.52 (ppb)
06-384-02	61.46 (ppb)	415.73 (ppb)
CCV	4974.45 (ppb)	1970.57 (ppb)
CCB	-0.57 u (ppb)	-0.51 u (ppb)
06-379-01a	44.81 (ppb)	426.67 (ppb)
06-379-02a	33.79 (ppb)	474.88 (ppb)
06-379-03a	28.96 (ppb)	502.35 (ppb)
06-379-04a	26.99 (ppb)	474.89 (ppb)
06-344-01a	72.13 (ppb)	191.99 (ppb)
06-344-02a	67.85 (ppb)	679.24 (ppb)
06-344-03a	126.91 (ppb)	254.22 (ppb)
06-344-04a	87.86 (ppb)	259.70 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
06-344-05a	58.84 (ppb)	291.32 (ppb)
06-375-01a	200.30 (ppb)	2313.00 b (ppb)
CCV	4952.44 (ppb)	1986.74 (ppb)
CCB	2.76 u (ppb)	-0.41 u (ppb)
06-375-02a	189.56 (ppb)	4279.97 b (ppb)
06-375-03a	221.37 (ppb)	9131.19 b (ppb)
06-299-13	40.45 (ppb)	222.98 (ppb)
06-299-14	117.56 (ppb)	288.71 (ppb)
06-299-15	339.57 (ppb)	283.26 (ppb)
06-299-16	149.78 (ppb)	347.05 (ppb)
06-299-17	106.29 (ppb)	363.56 (ppb)
06-299-18	177.31 (ppb)	288.65 (ppb)
06-375-03a X 10	21.90 (ppb)	1068.31 (ppb)
MB0630SM2	-6.17 u (ppb)	0.42 u (ppb)
CCV	5044.20 (ppb)	1991.58 (ppb)
CCB	2.99 u (ppb)	0.07 u (ppb)
SB0630SM2	1909.86 (ppb)	2010.28 (ppb)
06-380-01a	48.41 (ppb)	290.92 (ppb)
06-380-01a D	38.94 (ppb)	296.59 (ppb)
06-380-01a L	7.72 u (ppb)	61.15 (ppb)
06-380-01a MS	1872.16 (ppb)	2160.35 (ppb)
06-380-01a MSD	1893.88 (ppb)	2200.91 (ppb)
06-380-02a	48.84 (ppb)	279.11 (ppb)
06-380-03a	35.10 (ppb)	283.71 (ppb)
06-299-19	242.68 (ppb)	320.00 (ppb)
06-299-20	185.58 (ppb)	350.86 (ppb)
CCV	4918.89 (ppb)	1972.98 (ppb)
CCB	-1.77 u (ppb)	-0.31 u (ppb)
06-299-21	201.15 (ppb)	385.55 (ppb)
06-299-22	107.82 (ppb)	291.71 (ppb)
06-299-23	86.25 (ppb)	326.50 (ppb)
06-299-24	78.58 (ppb)	228.95 (ppb)
06-299-25	120.77 (ppb)	312.77 (ppb)
06-299-26	229.73 (ppb)	311.79 (ppb)
06-299-27	35.73 (ppb)	172.72 (ppb)
06-299-28	176.70 (ppb)	256.02 (ppb)
06-299-29	43.46 (ppb)	238.61 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.686 nm)	Ni (231.604 nm)
06-299-30	26.11 (ppb)	206.79 (ppb)
CCV	4973.59 (ppb)	1987.98 (ppb)
CCB	5.78 u (ppb)	0.94 (ppb)
06-299-31	104.59 (ppb)	289.78 (ppb)
06-393-01	1093.07 (ppb)	751.28 (ppb)
06-366-01a	138.96 (ppb)	3392.05 b (ppb)
CCV	4963.06 (ppb)	1978.01 (ppb)
CCB	0.03 u (ppb)	-0.11 u (ppb)





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 11, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2307-024

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on July 6, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 11, 2023  
Samples Submitted: July 6, 2023  
Laboratory Reference: 2307-024  
Project: 5147-006-17

### Case Narrative

Samples were collected on July 6, 2023 and received by the laboratory on July 6, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 11, 2023  
Samples Submitted: July 6, 2023  
Laboratory Reference: 2307-024  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
B-4-2.5	07-024-01	Soil	7-6-23	7-6-23	
B-4-3.5	07-024-02	Soil	7-6-23	7-6-23	
B-5-2.5	07-024-03	Soil	7-6-23	7-6-23	
B-5-3.5	07-024-04	Soil	7-6-23	7-6-23	
B-9-4	07-024-05	Soil	7-6-23	7-6-23	
S-1-2	07-024-07	Soil	7-6-23	7-6-23	
DUP-1	07-024-08	Soil	7-6-23	7-6-23	



Date of Report: July 11, 2023  
 Samples Submitted: July 6, 2023  
 Laboratory Reference: 2307-024  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-4-2.5</b>					
Laboratory ID:	07-024-01					
Arsenic	<b>ND</b>	10	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>79</b>	2.6	EPA 6010D	7-7-23	7-7-23	

<b>Client ID:</b>	<b>B-5-2.5</b>					
Laboratory ID:	07-024-03					
Arsenic	<b>28</b>	11	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>37</b>	2.7	EPA 6010D	7-7-23	7-7-23	

<b>Client ID:</b>	<b>B-9-4</b>					
Laboratory ID:	07-024-05					
Arsenic	<b>ND</b>	11	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>8.8</b>	2.9	EPA 6010D	7-7-23	7-7-23	

<b>Client ID:</b>	<b>S-1-2</b>					
Laboratory ID:	07-024-07					
Arsenic	<b>ND</b>	10	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>19</b>	2.6	EPA 6010D	7-7-23	7-7-23	

<b>Client ID:</b>	<b>DUP-1</b>					
Laboratory ID:	07-024-08					
Arsenic	<b>ND</b>	11	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>17</b>	2.6	EPA 6010D	7-7-23	7-7-23	



Date of Report: July 11, 2023  
 Samples Submitted: July 6, 2023  
 Laboratory Reference: 2307-024  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-4-3.5</b>					
Laboratory ID:	07-024-02					
Arsenic	<b>150</b>	11	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>27</b>	2.8	EPA 6010D	7-7-23	7-7-23	

<b>Client ID:</b>	<b>B-5-3.5</b>					
Laboratory ID:	07-024-04					
Arsenic	<b>ND</b>	11	EPA 6010D	7-7-23	7-7-23	
Nickel	<b>6.7</b>	2.8	EPA 6010D	7-7-23	7-7-23	



Date of Report: July 11, 2023  
 Samples Submitted: July 6, 2023  
 Laboratory Reference: 2307-024  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0707SM1					
Arsenic	ND	10	EPA 6010D	7-7-23	7-7-23	
Nickel	ND	2.5	EPA 6010D	7-7-23	7-7-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-024-05							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	7.70	7.40	NA	NA	NA	4	20	

**MATRIX SPIKES**

Analyte	MS		MSD		MS	MSD	MS	MSD	RPD	RPD Limit	Flags
	MS	MSD	MS	MSD							
Laboratory ID:	07-024-05										
Arsenic	99.6	96.0	100	100	ND	100	96	75-125	4	20	
Nickel	106	103	100	100	7.70	99	95	75-125	3	20	



Date of Report: July 11, 2023  
 Samples Submitted: July 6, 2023  
 Laboratory Reference: 2307-024  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

<b>Analyte</b>	<b>Lab ID</b>	<b>True Value (ppm)</b>	<b>Calc. Value</b>	<b>Percent Difference</b>	<b>Control Limits</b>
Arsenic	ICV070723B	1.00	0.953	4.7	+/- 10%
Nickel	ICV070723B	1.00	1.02	-2.0	+/- 10%
Arsenic	LLV070723B	0.0500	0.0589	-18	+/- 20%
Nickel	LLV070723B	0.0200	0.0223	-12	+/- 20%
Arsenic	CCV1070723B	5.00	4.98	0.40	+/- 10%
Nickel	CCV1070723B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV2070723B	5.00	4.93	1.4	+/- 10%
Nickel	CCV2070723B	2.00	2.00	0	+/- 10%
Arsenic	CCV3070723B	5.00	5.22	-4.4	+/- 10%
Nickel	CCV3070723B	2.00	2.10	-5.0	+/- 10%
Arsenic	CCV4070723B	5.00	5.18	-3.6	+/- 10%
Nickel	CCV4070723B	2.00	2.02	-1.0	+/- 10%



Date of Report: July 11, 2023  
Samples Submitted: July 6, 2023  
Laboratory Reference: 2307-024  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>B-4-2.5</b>	07-024-01	<b>4</b>	7-6-23
<b>B-4-3.5</b>	07-024-02	<b>11</b>	7-7-23
<b>B-5-2.5</b>	07-024-03	<b>8</b>	7-6-23
<b>B-5-3.5</b>	07-024-04	<b>10</b>	7-7-23
<b>B-9-4</b>	07-024-05	<b>12</b>	7-6-23
<b>S-1-2</b>	07-024-07	<b>3</b>	7-6-23
<b>DUP-1</b>	07-024-08	<b>5</b>	7-6-23







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
(in working days)  
(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)
- (other) \_\_\_\_\_

Laboratory Number: **07-024**

Company: **GEONIGMERS INC.**  
Project Number: **5147-0000-17**  
Project Name: **POA - DAKOTA CREEK CLEANUP ACTION**  
Project Manager: **ARBITR JOSH**  
Sampled by: **NATHAN SCHEMEL**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Number: 07-024																	
						NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	B-4-2.5	07.06.23	0715	Soil	1																		X
2	B-4-3.5		0720		1																		X
3	B-5-2.5		0735		1																		X
4	B-5-3.5		0740		1																		X
5	B-9-4		0855		1																		X
6	B-9-5		0900		1																		X
7	B-1-2	07.06.23	1000	Soil	1																		X
8	DUP-1		1200		1																		X

Signature

Company

Date

Time

Comments/Special Instructions

*MA*

*GEI*

*07.06.23*

*11:50*

*HOLD SAMPLES WILL BE RUN PENDING AS,Ni RESULTS OF SAMPLES RUN. @ Added 7/7/23 BC Same date TA*

*#17*

*Speedy Alpha*

*7/6/23*

*2:11*

*#17*

*#17*

*Speedy Alpha*

*7/6/23*

*1411*

*OSZ*

*OSZ*

*7/6/23*

*1411*

*OSZ*

*OSZ*

*7/6/23*

*1411*

*OSZ*

# Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-17

OnSite Project Number: 07-024

Initiated by: KP

Date Initiated: 7/6/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	Temperature: <u>2.4°</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	UPS/FedEx	OSE Pickup    Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data



*RH 7/7/23*

### Summary

Worksheet Name	B230707A.esws	Created Date/Time (local)	7/7/2023 9:12:30 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/7/2023 4:12:30 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B230707A.esws		

Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	952.98 (ppb)	1024.15 (ppb)
ICB	2.61 u (ppb)	0.04 u (ppb)
LLV	58.91 Q (ppb)	22.30 (ppb)
CCV	4982.08 (ppb)	1991.08 (ppb)
CCB	2.41 u (ppb)	0.41 u (ppb)
ICSA	21.67 (ppb)	0.77 u (ppb)
ICSAB	2283.69 (ppb)	820.79 G (ppb)
MB0707SM1	2.23 u (ppb)	8.99 (ppb)
SB0707SM1	1863.33 (ppb)	1985.59 (ppb)
07-024-05	85.29 (ppb)	153.62 (ppb)
07-024-05 D	84.05 (ppb)	147.64 (ppb)
07-024-05 L	20.72 (ppb)	32.44 (ppb)
07-024-05 MS	1992.42 (ppb)	2126.81 (ppb)
07-024-05 MSD	1918.66 (ppb)	2057.18 (ppb)
07-024-01	50.30 (ppb)	1515.77 (ppb)
CCV	4933.83 (ppb)	2002.68 (ppb)
CCB	-1.33 u (ppb)	-0.76 u (ppb)
07-024-03	517.94 (ppb)	686.52 (ppb)
07-024-07	63.53 (ppb)	369.74 (ppb)
07-024-08	53.79 (ppb)	321.97 (ppb)
07-027-01	33.09 (ppb)	109.80 (ppb)
07-027-02	52.54 (ppb)	109.58 (ppb)
07-027-03	20.65 (ppb)	103.45 (ppb)
07-027-04	8.51 (ppb)	130.49 (ppb)
07-027-05	42.19 (ppb)	132.82 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
CCV	5221.59 (ppb)	2104.90 (ppb)
CCB	2.74 u (ppb)	1.19 u (ppb)





*KH 7/7/23*

### Summary

Worksheet Name	B230707A.esws	Created Date/Time (local)	7/7/2023 9:12:30 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/7/2023 4:12:30 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B230707A.esws		

Notes



## Results

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Optional Standard		
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Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
Si 100		
Si 1000		
Si 5000		
ICV	952.98 (ppb)	1024.15 (ppb)
ICB	2.61 u (ppb)	0.04 u (ppb)
LLV	58.91 (ppb)	22.30 Q (ppb)
CCV	4982.08 (ppb)	1991.08 (ppb)
CCB	2.41 u (ppb)	0.41 u (ppb)
ICSA	21.67 (ppb)	0.77 u (ppb)
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07-024-07	63.53 (ppb)	369.74 (ppb)
07-024-08	53.79 (ppb)	321.97 (ppb)
07-027-01	33.09 (ppb)	109.80 (ppb)
07-027-02	52.54 (ppb)	109.58 (ppb)
07-027-03	20.65 (ppb)	103.45 (ppb)
07-027-04	8.51 (ppb)	130.49 (ppb)
07-027-05	42.19 (ppb)	132.82 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.896 nm)	Ni (231.604 nm)
MB0705SM1	-3.65 u (ppb)	2.24 (ppb)
06-331-01a	6.74 u (ppb)	883.69 (ppb)
CCV	5221.59 (ppb)	2104.90 (ppb)
CCB	2.74 u (ppb)	1.19 u (ppb)
06-331-02a	40.21 (ppb)	666.48 (ppb)
06-331-03a	93.91 (ppb)	893.84 (ppb)
06-331-04a	81.62 (ppb)	727.64 (ppb)
07-024-02(0707SM1)	2671.55 (ppb)	475.69 (ppb)
07-024-04	48.84 (ppb)	122.38 (ppb)
MB0707TM1	1.09 u (ppb)	2.84 (ppb)
SB0707TM1	1972.94 (ppb)	1851.70 (ppb)
05-254-01	2.53 u (ppb)	9.95 (ppb)
05-254-01 D	6.70 u (ppb)	7.93 (ppb)
05-254-01 L	-2.77 u (ppb)	1.26 (ppb)
CCV	5181.35 (ppb)	2016.04 (ppb)
CCB	8.33 (ppb)	0.72 u (ppb)
05-254-01 MS	2012.99 (ppb)	1841.90 (ppb)
05-254-01 MSD	2007.30 (ppb)	1859.30 (ppb)
05-254-02	4.15 u (ppb)	3.52 (ppb)
05-254-05	7.71 (ppb)	6.05 (ppb)
05-254-13	-6.21 u (ppb)	2.06 (ppb)
05-254-14	2.24 u (ppb)	3.09 (ppb)
CCV	5305.72 (ppb)	2004.24 (ppb)
CCB	17.11 (ppb)	0.35 u (ppb)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 10, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2307-037

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on July 7, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 10, 2023  
Samples Submitted: July 7, 2023  
Laboratory Reference: 2307-037  
Project: 5147-006-17

### Case Narrative

Samples were collected on July 7, 2023 and received by the laboratory on July 7, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 10, 2023  
Samples Submitted: July 7, 2023  
Laboratory Reference: 2307-037  
Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
B-10-4	07-037-01	Soil	7-7-23	7-7-23	
B-11-4	07-037-03	Soil	7-7-23	7-7-23	



Date of Report: July 10, 2023  
 Samples Submitted: July 7, 2023  
 Laboratory Reference: 2307-037  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-10-4</b>					
Laboratory ID:	07-037-01					
Arsenic	<b>ND</b>	10	EPA 6010D	7-7-23	7-10-23	
Nickel	<b>6.0</b>	2.6	EPA 6010D	7-7-23	7-10-23	

<b>Client ID:</b>	<b>B-11-4</b>					
Laboratory ID:	07-037-03					
Arsenic	<b>ND</b>	11	EPA 6010D	7-7-23	7-10-23	
Nickel	<b>39</b>	2.7	EPA 6010D	7-7-23	7-10-23	



Date of Report: July 10, 2023  
 Samples Submitted: July 7, 2023  
 Laboratory Reference: 2307-037  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0707SM1					
Arsenic	ND	10	EPA 6010D	7-7-23	7-7-23	
Nickel	ND	2.5	EPA 6010D	7-7-23	7-7-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-024-05							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	7.70	7.40	NA	NA	NA	4	20	

**MATRIX SPIKES**

Laboratory ID:	07-024-05									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	99.6	96.0	100	100	ND	100	96	75-125	4	20
Nickel	106	103	100	100	7.70	99	95	75-125	3	20





Date of Report: July 10, 2023  
 Samples Submitted: July 7, 2023  
 Laboratory Reference: 2307-037  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV070723B	1.00	0.953	4.7	+/- 10%
Nickel	ICV070723B	1.00	1.02	-2.0	+/- 10%
Arsenic	LLV070723B	0.0500	0.0589	-18	+/- 20%
Nickel	LLV070723B	0.0200	0.0223	-12	+/- 20%
Arsenic	CCV1070723B	5.00	4.98	0.40	+/- 10%
Nickel	CCV1070723B	2.00	1.99	0.50	+/- 10%
Arsenic	CCV2070723B	5.00	4.93	1.4	+/- 10%
Nickel	CCV2070723B	2.00	2.00	0	+/- 10%
Arsenic	CCV3070723B	5.00	5.22	-4.4	+/- 10%
Nickel	CCV3070723B	2.00	2.10	-5.0	+/- 10%
Arsenic	ICV071023B	1.00	0.964	3.6	+/- 10%
Nickel	ICV071023B	1.00	1.04	-4.0	+/- 10%
Arsenic	LLV071023B	0.0500	0.0429	14	+/- 20%
Nickel	LLV071023B	0.0200	0.0236	-18	+/- 20%
Arsenic	CCV1071023B	5.00	4.97	0.60	+/- 10%
Nickel	CCV1071023B	2.00	2.01	-0.50	+/- 10%
Arsenic	CCV2071023B	5.00	4.87	2.6	+/- 10%
Nickel	CCV2071023B	2.00	1.97	1.5	+/- 10%



Date of Report: July 10, 2023  
Samples Submitted: July 7, 2023  
Laboratory Reference: 2307-037  
Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>B-10-4</b>	07-037-01	<b>4</b>	7-7-23
<b>B-11-4</b>	07-037-03	<b>7</b>	7-7-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





# Onsite Environmental Inc.

Analytical Laboratory Testing Services

14648 NE 95th Street • Redmond, WA 98052

Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
(in working days)  
(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: **07-037**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	As	Ni	HOLD	% Moisture		
1	B-10-4	7.7.23	1130	SAL	1																							X
2	B-10-5		1135		1																							X
3	B-11-4		1305		1																							X
4	B-11-5		1310		1																							X

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received		Geo	07.07.23	16:35	
Relinquished			7/12/23	1635	
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Sample/Cooler Receipt and Acceptance Checklist

Client: GE

Client Project Name/Number: 5147-006-17

OnSite Project Number: 07-037

Initiated by: [Signature]

Date Initiated: 7/7/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	<input checked="" type="radio"/> No	Temperature: <u>23</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data

only AC



KH 7/7/23

### Summary

Worksheet Name	B230707A.esws	Created Date/Time (local)	7/7/2023 9:12:30 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/7/2023 4:12:30 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230707A.esws		

Notes





## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	952.98 (ppb)	1024.15 (ppb)
ICB	2.61 u (ppb)	0.04 u (ppb)
LLV	58.91 (ppb)	22.30 Q (ppb)
CCV	4982.08 (ppb)	1991.08 (ppb)
CCB	2.41 u (ppb)	0.41 u (ppb)
ICSA	21.67 (ppb)	0.77 u (ppb)
ICSAB	2283.69 (ppb)	820.79 (ppb)
MB0707SM1	2.23 u (ppb)	8.99 (ppb)
SB0707SM1	1863.33 (ppb)	1985.59 (ppb)
07-024-05	85.29 (ppb)	153.62 (ppb)
07-024-05 D	84.05 (ppb)	147.64 (ppb)
07-024-05 L	20.72 (ppb)	32.44 (ppb)
07-024-05 MS	1992.42 (ppb)	2126.81 (ppb)
07-024-05 MSD	1918.66 (ppb)	2057.18 (ppb)
07-024-01	50.30 (ppb)	1515.77 (ppb)
CCV	4933.83 (ppb)	2002.68 (ppb)
CCB	-1.33 u (ppb)	-0.76 u (ppb)
07-024-03	517.94 (ppb)	686.52 (ppb)
07-024-07	63.53 (ppb)	369.74 (ppb)
07-024-08	53.79 (ppb)	321.97 (ppb)
07-027-01	33.09 (ppb)	109.80 (ppb)
07-027-02	52.54 (ppb)	109.58 (ppb)
07-027-03	20.65 (ppb)	103.45 (ppb)
07-027-04	8.51 (ppb)	130.49 (ppb)
07-027-05	42.19 (ppb)	132.82 (ppb)

*only Sample*



*KH 7/10/23*

### Summary

Worksheet Name	B230710A.esws	Created Date/Time (local)	7/10/2023 9:29:15 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/10/2023 4:29:15 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230710A.esws		

Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
Si 100		
Si 1000		
Si 5000		
ICV	963.53 (ppb)	1035.20 (ppb)
ICB	-15.20 u (ppb)	2.00 (ppb)
LLV	42.86 (ppb)	23.60 Q (ppb)
CCV	4965.33 (ppb)	2012.29 (ppb)
CCB	-12.28 u (ppb)	1.18 u (ppb)
ICSA	-0.85 u (ppb)	-0.70 u (ppb)
ICSAB	2364.82 (ppb)	843.53 (ppb)
07-037-01(0707SM1)	2.42 u (ppb)	114.00 (ppb)
07-037-023	7.57 u (ppb)	725.21 (ppb)
MB0710D1	-19.52 u (ppb)	1.27 (ppb)
MDL # 1(Si)	-6.77 u (ppb)	1.02 (ppb)
MDL # 2	-12.58 u (ppb)	1.13 (ppb)
MDL # 1(Dis.)	42.06 (ppb)	24.10 (ppb)
07-024-02(0707SM1)	2575.84 (ppb)	484.04 (ppb)
07-024-04	3.84 u (ppb)	125.91 (ppb)
CCV	4874.66 (ppb)	1969.29 (ppb)
CCB	-15.19 u (ppb)	2.01 (ppb)

Kit 7/10/23



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 11, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 05147-006-17  
Laboratory Reference No. 2307-044

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on July 10, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 11, 2023  
Samples Submitted: July 10, 2023  
Laboratory Reference: 2307-044  
Project: 05147-006-17

### Case Narrative

Samples were collected on July 10, 2023 and received by the laboratory on July 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 11, 2023  
Samples Submitted: July 10, 2023  
Laboratory Reference: 2307-044  
Project: 05147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
B-12-4	07-044-01	Soil	7-10-23	7-10-23	
B-13-4	07-044-03	Soil	7-10-23	7-10-23	
B-14-4	07-044-05	Soil	7-10-23	7-10-23	
DUP-2	07-044-07	Soil	7-10-23	7-10-23	



Date of Report: July 11, 2023  
 Samples Submitted: July 10, 2023  
 Laboratory Reference: 2307-044  
 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-12-4</b>					
Laboratory ID:	07-044-01					
Arsenic	<b>ND</b>	12	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>7.6</b>	3.0	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>B-13-4</b>					
Laboratory ID:	07-044-03					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>18</b>	2.6	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>B-14-4</b>					
Laboratory ID:	07-044-05					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>33</b>	2.7	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>DUP-2</b>					
Laboratory ID:	07-044-07					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>31</b>	2.7	EPA 6010D	7-11-23	7-11-23	



Date of Report: July 11, 2023  
 Samples Submitted: July 10, 2023  
 Laboratory Reference: 2307-044  
 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0711SM1					
Arsenic	ND	10	EPA 6010D	7-11-23	7-11-23	
Nickel	ND	2.5	EPA 6010D	7-11-23	7-11-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-019-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	28.5	28.0	NA	NA	NA	2	20	

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit
07-019-01									
Arsenic	91.7	92.3	100	100	ND	92	92	75-125	1 20
Nickel	116	116	100	100	28.5	88	88	75-125	0 20





Date of Report: July 11, 2023  
Samples Submitted: July 10, 2023  
Laboratory Reference: 2307-044  
Project: 05147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>B-12-4</b>	07-044-01	<b>16</b>	7-10-23
<b>B-13-4</b>	07-044-03	<b>5</b>	7-10-23
<b>B-14-4</b>	07-044-05	<b>7</b>	7-10-23
<b>DUP-2</b>	07-044-07	<b>7</b>	7-10-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





# MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

## Chain of Custody

### Turnaround Request (in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

### Laboratory Number: 07-044

8

Company: <u>GEOENTHIEIZ INC.</u>		Project Number: <u>05147-006-12</u>		Project Name: <u>RVA - DC1 CLEAN UP ACTION</u>		Project Manager: <u>ARADJIT JOSHI</u>		Sampled by: <u>NATHAN SERRANO</u>																	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture		
1	B-12-4	7/10/23	1030	SOIL	1																				
2	B-12-5		1035																						
3	B-13-4		1040																						
4	B-13-5		1045																						
5	B-14-4		1050																						
6	B-14-5		1055																						
7	DVP-2		1200																						
Signature		Company		Date		Time		Comments/Special Instructions																	
<i>[Signature]</i>		GEOENTHIEIZ INC.		7/10/23		14:02																			
<i>[Signature]</i>		GEOENTHIEIZ INC.		7/10/23		15:25																			
<i>[Signature]</i>		GEOENTHIEIZ INC.		7/10/23		15:25																			
Received		Received		Received		Received		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>																	
Relinquished		Relinquished		Relinquished		Relinquished		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																	

# Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 05147-006-17

OnSite Project Number: 07-044

Initiated by: AMV

Date Initiated: 7/10/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	Temperature: <input type="text"/>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data



*K10 7/11/23*

### Summary

Worksheet Name	B230711A.esws	Created Date/Time (local)	7/11/2023 9:48:29 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/11/2023 4:48:29 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230711A.esws		

Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	968.79 (ppb)	1060.66 (ppb)
ICB	2.08 u (ppb)	1.01 u (ppb)
LLV	59.73 (ppb)	22.10 Q (ppb)
CCV	5009.23 (ppb)	2054.46 (ppb)
CCB	6.19 u (ppb)	-1.83 u (ppb)
ICSA	21.39 u (ppb)	-1.15 u (ppb)
ICSAB	2317.10 (ppb)	851.91 (ppb)
MB0711SM1	9.08 (ppb)	1.58 (ppb)
SB0711SM1	1984.04 (ppb)	2122.13 (ppb)
07-019-01a	75.75 (ppb)	568.74 (ppb)
07-019-01a D	77.98 (ppb)	558.72 (ppb)
07-019-01a L	8.51 (ppb)	123.22 (ppb)
07-019-01a MS	1833.38 (ppb)	2327.59 (ppb)
07-019-01a MSD	1845.13 (ppb)	2327.15 (ppb)
07-044-01	91.54 (ppb)	126.58 (ppb)
CCV	5069.75 (ppb)	2042.62 (ppb)
CCB	3.57 u (ppb)	-1.09 u (ppb)
07-044-03	106.03 (ppb)	335.84 (ppb)
07-044-05	18.43 (ppb)	616.99 (ppb)
07-044-07	38.53 (ppb)	585.67 (ppb)
05-341-01a	228.70 (ppb)	578.04 (ppb)
CCV	5057.00 (ppb)	2033.09 (ppb)
CCB	2.01 u (ppb)	0.17 u (ppb)





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 13, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-17  
Laboratory Reference No. 2307-050

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on July 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 13, 2023  
Samples Submitted: July 11, 2023  
Laboratory Reference: 2307-050  
Project: 5147-006-17

### Case Narrative

Samples were collected on July 11, 2023 and received by the laboratory on July 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
S-11-3.25	07-050-01	Soil	7-11-23	7-11-23	
S-12-5	07-050-02	Soil	7-11-23	7-11-23	
S-14-5	07-050-03	Soil	7-11-23	7-11-23	
S-15-4.5	07-050-04	Soil	7-11-23	7-11-23	
S-16-4.25	07-050-05	Soil	7-11-23	7-11-23	
S-17-5	07-050-06	Soil	7-11-23	7-11-23	
B-4-4	07-050-07	Soil	7-11-23	7-11-23	
B-6-2.5	07-050-12	Soil	7-11-23	7-11-23	
B-6-3.5	07-050-13	Soil	7-11-23	7-11-23	
B-7-2.5	07-050-14	Soil	7-11-23	7-11-23	
B-3-2.5	07-050-16	Soil	7-11-23	7-11-23	



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>S-11-3.25</b>					
Laboratory ID:	07-050-01					
Arsenic	<b>ND</b>	12	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>34</b>	2.9	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>S-12-5</b>					
Laboratory ID:	07-050-02					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>6.9</b>	2.7	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>S-14-5</b>					
Laboratory ID:	07-050-03					
Arsenic	<b>ND</b>	10	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>6.6</b>	2.6	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>S-15-4.5</b>					
Laboratory ID:	07-050-04					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>37</b>	2.8	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>S-16-4.25</b>					
Laboratory ID:	07-050-05					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>23</b>	2.7	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>S-17-5</b>					
Laboratory ID:	07-050-06					
Arsenic	<b>ND</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>8.4</b>	2.9	EPA 6010D	7-11-23	7-11-23	

<b>Client ID:</b>	<b>B-4-4</b>					
Laboratory ID:	07-050-07					
Arsenic	<b>ND</b>	10	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>5.0</b>	2.6	EPA 6010D	7-11-23	7-11-23	



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-6-2.5</b>					
Laboratory ID:	07-050-12					
Arsenic	<b>34</b>	11	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>41</b>	2.6	EPA 6010D	7-11-23	7-11-23	
<b>Client ID:</b>	<b>B-7-2.5</b>					
Laboratory ID:	07-050-14					
Arsenic	<b>ND</b>	12	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>32</b>	2.9	EPA 6010D	7-11-23	7-11-23	
<b>Client ID:</b>	<b>B-3-2.5</b>					
Laboratory ID:	07-050-16					
Arsenic	<b>ND</b>	10	EPA 6010D	7-11-23	7-11-23	
Nickel	<b>29</b>	2.5	EPA 6010D	7-11-23	7-11-23	



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-6-3.5</b>					
Laboratory ID:	07-050-13					
Arsenic	<b>39</b>	11	EPA 6010D	7-12-23	7-12-23	
Nickel	<b>23</b>	2.7	EPA 6010D	7-12-23	7-12-23	



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0711SM2					
Arsenic	ND	10	EPA 6010D	7-11-23	7-11-23	
Nickel	ND	2.5	EPA 6010D	7-11-23	7-11-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-019-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	27.3	27.2	NA	NA	NA	0	20	

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit	Flags
	07-019-01									
Arsenic	92.2	89.7	100	100	ND	92	90	75-125	3	20
Nickel	113	112	100	100	27.3	86	85	75-125	1	20



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV071123B	1.00	0.969	3.1	+/- 10%
Nickel	ICV071123B	1.00	1.06	-6.0	+/- 10%
Arsenic	LLV071123B	0.0500	0.0597	-19	+/- 20%
Nickel	LLV071123B	0.0200	0.0221	-11	+/- 20%
Arsenic	CCV1071123B	5.00	5.01	-0.20	+/- 10%
Nickel	CCV1071123B	2.00	2.05	-2.5	+/- 10%
Arsenic	CCV2071123B	5.00	5.07	-1.4	+/- 10%
Nickel	CCV2071123B	2.00	2.04	-2.0	+/- 10%
Arsenic	CCV3071123B	5.00	5.06	-1.2	+/- 10%
Nickel	CCV3071123B	2.00	2.03	-1.5	+/- 10%
Arsenic	CCV4071123B	5.00	5.01	-0.20	+/- 10%
Nickel	CCV4071123B	2.00	1.98	1.0	+/- 10%
Arsenic	CCV5071123B	5.00	5.00	0	+/- 10%
Nickel	CCV5071123B	2.00	1.93	3.5	+/- 10%
Arsenic	CCV6071123B	5.00	5.04	-0.80	+/- 10%
Nickel	CCV6071123B	2.00	1.94	3.0	+/- 10%





Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0712SM1					
Arsenic	<b>ND</b>	10	EPA 6010D	7-12-23	7-12-23	
Nickel	<b>ND</b>	2.5	EPA 6010D	7-12-23	7-12-23	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	07-034-03							
	ORIG	DUP						
Arsenic	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	20
Nickel	<b>10.4</b>	<b>9.75</b>	NA	NA	NA	NA	6	20

**MATRIX SPIKES**

Laboratory ID:	07-034-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	<b>102</b>	<b>100</b>	100	100	ND	<b>102</b>	<b>100</b>	75-125	1	20
Nickel	<b>110</b>	<b>108</b>	100	100	10.4	<b>100</b>	<b>98</b>	75-125	2	20



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV071223B	1.00	1.02	-2.0	+/- 10%
Nickel	ICV071223B	1.00	1.06	-6.0	+/- 10%
Arsenic	LLV071223B	0.0500	0.0518	-3.6	+/- 20%
Nickel	LLV071223B	0.0200	0.0206	-3.0	+/- 20%
Arsenic	CCV1071223B	5.00	5.15	-3.0	+/- 10%
Nickel	CCV1071223B	2.00	2.05	-2.5	+/- 10%
Arsenic	CCV2071223B	5.00	5.24	-4.8	+/- 10%
Nickel	CCV2071223B	2.00	2.05	-2.5	+/- 10%
Arsenic	CCV3071223B	5.00	5.33	-6.6	+/- 10%
Nickel	CCV3071223B	2.00	2.07	-3.5	+/- 10%
Arsenic	CCV4071223B	5.00	5.29	-5.8	+/- 10%
Nickel	CCV4071223B	2.00	2.08	-4.0	+/- 10%
Arsenic	CCV5071223B	5.00	5.13	-2.6	+/- 10%
Nickel	CCV5071223B	2.00	2.01	-0.50	+/- 10%
Arsenic	CCV6071223B	5.00	5.11	-2.2	+/- 10%
Nickel	CCV6071223B	2.00	2.01	-0.50	+/- 10%
Arsenic	CCV7071223B	5.00	5.13	-2.6	+/- 10%
Nickel	CCV7071223B	2.00	2.01	-0.50	+/- 10%



Date of Report: July 13, 2023  
 Samples Submitted: July 11, 2023  
 Laboratory Reference: 2307-050  
 Project: 5147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
S-11-3.25	07-050-01	13	7-11-23
S-12-5	07-050-02	8	7-11-23
S-14-5	07-050-03	4	7-11-23
S-15-4.5	07-050-04	11	7-11-23
S-16-4.25	07-050-05	7	7-11-23
S-17-5	07-050-06	13	7-11-23
B-4-4	07-050-07	4	7-11-23
B-6-2.5	07-050-12	6	7-11-23
B-6-3.5	07-050-13	6	7-12-23
B-7-2.5	07-050-14	15	7-11-23
B-3-2.5	07-050-16	2	7-11-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





# Onsite Environmental Inc.

Analytical Laboratory / Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

## Chain of Custody

Territorial Request  
(in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number:

**07-050**

Company: **GENERALINTEERS**  
Project Number: **5147-006-17**  
Project Name: **POA - DCI CLEAN UP ACTION**  
Project Manager: **ARBITRIT JOSHI**  
Sampled by: **NATHAN SOLOMON**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	S-11-3.5/3.25 DS	7.11.23	1100	SOL	1
2	S-12-5		1045		1
3	S-14-5		1035		1
4	S-15-4.5		1030		1
5	S-16-4.25		1140		1
6	S-17-5		1050		1
7	B-4-4		1150		1
8	B-4-4.5		1155		1
9	B-4-5.0		1200		1
10	B-4-5.5		1205		1

Test Method	Result
NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	
NWTPH-Gx	
NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	
Volatiles 8260	
Halogenated Volatiles 8260	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	7.11.23	15:42	<b>(Added 7/12/23. DS (Same day))</b>
	ORC	7.11.23	15:42	

Relinquished \_\_\_\_\_

Received \_\_\_\_\_

Relinquished \_\_\_\_\_

Received \_\_\_\_\_

Relinquished \_\_\_\_\_

Received \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)



**Onsite Environmental Inc.**  
 Analytical Laboratory Testing Services  
 14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

Turnaround Request  
 (in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number: **07-050**

Company: **GEENGINEERS**  
 Project Number: **5147-006-17**  
 Project Name: **PCP-DGT CLEAN UP ACTION**  
 Project Manager: **ADHEVEIT JOSHI**  
 Sampled by: **NATHAN SOLOMON**

Lab ID Sample Identification Date Sampled Time Sampled Matrix

Number of Containers		Laboratory Number: 07-050																				
		NWTPH-HCID																				
		NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )																				
		NWTPH-Gx																				
		NWTPH-Dx (SG Clean-up <input type="checkbox"/> )																				
		Volatiles 8260																				
		Halogenated Volatiles 8260																				
		EDB EPA 8011 (Waters Only)																				
		Semivolatiles 8270/SIM (with low-level PAHs)																				
		PAHs 8270/SIM (low-level)																				
		PCBs 8082																				
		Organochlorine Pesticides 8081																				
		Organophosphorus Pesticides 8270/SIM																				
		Chlorinated Acid Herbicides 8151																				
		Total RCRA Metals																				
		Total MTCA Metals																				
		TCLP Metals																				
		HEM (oil and grease) 1664																				
		% Moisture																				

11	B-4-6.0	7.11.23	12:10	SOIL	1
12	B-6-2.5		19:05		1
13	B-6-3.5		10:10		1
14	B-7-2.5		11:35		1
15	B-7-3.5		11:40		1
16	B-3-2.5		11:20		1
17	B-3-3.5		11:25		1

Signature	Company	Date	Time	Comments/Special Instructions
<i>Mr. RL</i>	GEI	7.11.23	15:42	
<i>[Signature]</i>	GEI	7/11/23	15:42	

Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Reviewed/Date \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)

# Sample/Cooler Receipt and Acceptance Checklist

Client: GE

Client Project Name/Number: 5147-006-17

OnSite Project Number: 07-050

Initiated by: AMV

Date Initiated: 7/11/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	Temperature: <u>4.3</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	<input type="radio"/> No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input type="radio"/> N/A

### Explain any discrepancies:

2.4) #1) S-11-3.25 on label

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D



Total Metals  
EPA 6010D Data



*KH 7/11/23*

### Summary

Worksheet Name	B230711B.esws	Created Date/Time (local)	7/11/2023 9:48:29 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/11/2023 4:48:29 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230711B.esws		

Notes



Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	968.79 (ppb)	1060.66 (ppb)
ICB	2.08 u (ppb)	1.01 u (ppb)
LLV	59.73 (ppb)	22.10 Q (ppb)
CCV	5009.23 (ppb)	2054.46 (ppb)
CCB	6.19 u (ppb)	-1.83 u (ppb)
ICSA	21.39 u (ppb)	-1.15 u (ppb)
ICSAB	2317.10 (ppb)	851.91 (ppb)
MB0711SM1	9.08 (ppb)	1.58 (ppb)
SB0711SM1	1984.04 (ppb)	2122.13 (ppb)
07-019-01a	75.75 (ppb)	568.74 (ppb)
07-019-01a D	77.98 (ppb)	558.72 (ppb)
07-019-01a L	8.51 (ppb)	123.22 (ppb)
07-019-01a MS	1833.38 (ppb)	2327.59 (ppb)
07-019-01a MSD	1845.13 (ppb)	2327.15 (ppb)
07-044-01	91.54 (ppb)	126.58 (ppb)
CCV	5069.75 (ppb)	2042.62 (ppb)
CCB	3.57 u (ppb)	-1.09 u (ppb)
07-044-03	106.03 (ppb)	335.84 (ppb)
07-044-05	18.43 (ppb)	616.99 (ppb)
07-044-07	38.53 (ppb)	585.67 (ppb)
05-341-01a	228.70 (ppb)	578.04 (ppb)
BLK	-6.54 u (ppb)	-0.44 u (ppb)
MB0710WH2	4.43 (ppb)	1.33 u (ppb)
MDL # 1	53.70 (ppb)	22.12 (ppb)
MDL # 2	57.73 (ppb)	21.97 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
SB0710WH2	2022.81 (ppb)	2008.58 (ppb)
06-397-02a	7.97 (ppb)	1.19 (ppb)
CCV <sub>3</sub>	5057.00 (ppb)	2033.09 (ppb)
CCB	2.01 u (ppb)	0.17 u (ppb)
06-397-02a D	4.23 (ppb)	2.36 (ppb)
06-397-02a L	-0.33 u (ppb)	-1.24 u (ppb)
06-397-02a MS	2004.50 (ppb)	2003.40 (ppb)
06-397-02a MSD	1971.93 (ppb)	1967.14 (ppb)
07-025-01c X 100	4.94 u (ppb)	1.12 (ppb)
06-397-02a X 5	3.20 u (ppb)	1.03 (ppb)
06-397-02a D X 5	1.23 u (ppb)	-1.34 u (ppb)
06-397-02a L	0.43 u (ppb)	-0.42 u (ppb)
06-397-02a MS X 5	403.18 (ppb)	416.85 (ppb)
06-397-02a MSD X 5	420.93 (ppb)	411.22 (ppb)
CCV <sub>4</sub>	5010.40 (ppb)	1984.17 (ppb)
CCB	2.40 (ppb)	-0.63 u (ppb)
07-025-01c	10.66 (ppb)	26.57 (ppb)
06-363-04b(Bott.)	-5.04 u (ppb)	1.22 u (ppb)
MB0711SM2	0.68 u (ppb)	0.71 u (ppb)
SB0711SM2	1908.50 (ppb)	1987.31 (ppb)
07-019-01a	60.18 (ppb)	545.78 (ppb)
07-019-01a D	68.32 (ppb)	544.20 (ppb)
07-019-01a L	19.44 (ppb)	119.80 (ppb)
07-019-01a MS	1843.87 (ppb)	2266.74 (ppb)
07-019-01a MSD	1793.37 (ppb)	2236.94 (ppb)
07-341-01	178.31 (ppb)	612.00 (ppb)
CCV <sub>5</sub>	4955.19 (ppb)	1927.64 (ppb)
CCB	2.05 u (ppb)	-0.74 u (ppb)
07-050-01	98.96 (ppb)	582.16 (ppb)
07-050-02	15.19 (ppb)	127.54 (ppb)
07-050-03	15.66 (ppb)	127.33 (ppb)
07-050-04	32.16 (ppb)	666.26 (ppb)
07-050-05	66.49 (ppb)	428.01 (ppb)
07-050-06	21.32 (ppb)	147.18 (ppb)
07-050-07	12.35 (ppb)	96.42 (ppb)
07-050-12	641.66 (ppb)	776.35 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
07-050-14	61.56 (ppb)	537.12 (ppb)
07-050-16	25.09 (ppb)	574.88 (ppb)
CCV <sup>6</sup>	5044.03 (ppb)	1936.99 (ppb)
CCB	8.24 u (ppb)	1.27 u (ppb)



*RH 7/12/23*

### Summary

Worksheet Name	B230712A.esws	Created Date/Time (local)	7/12/2023 10:14:21 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/12/2023 5:14:21 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230712A.esws		

Notes



Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	1019.68 (ppb)	1058.78 (ppb)
ICB	-0.55 u (ppb)	-3.41 u (ppb)
LLV	51.79 (ppb)	20.64 (ppb)
CCV	5150.90 (ppb)	2050.23 (ppb)
CCB	1.79 u (ppb)	-1.86 u (ppb)
ICSA	18.33 u (ppb)	-1.78 u (ppb)
ICSAB	2470.25 (ppb)	864.97 (ppb)
MB0712TM1	9.70 (ppb)	-1.85 u (ppb)
SB0712TM1	2024.99 (ppb)	1941.92 (ppb)
07-004-07	14.55 (ppb)	19.73 (ppb)
07-004-07 D	16.46 (ppb)	19.65 (ppb)
07-004-07 L	-5.29 u (ppb)	4.46 (ppb)
07-004-07 MS	2013.66 (ppb)	1867.28 (ppb)
07-004-07 MSD	2021.01 (ppb)	1857.87 (ppb)
07-004-08	9.63 (ppb)	24.21 (ppb)
CCV	5237.92 (ppb)	2047.63 (ppb)
CCB	7.02 (ppb)	-2.73 u (ppb)
07-004-09	13.09 (ppb)	18.00 (ppb)
07-004-10	2.01 (ppb)	12.42 (ppb)
07-004-11	16.69 (ppb)	7.14 (ppb)
07-004-12	-5.83 u (ppb)	10.16 (ppb)
MB0712D1	-0.93 u (ppb)	-1.86 u (ppb)
MDL # 1	51.78 (ppb)	20.23 (ppb)
MDL # 2	45.20 (ppb)	19.86 (ppb)
MB0710WH2	1.86 u (ppb)	-3.47 u (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
MDL # 1	47.10 (ppb)	20.73 (ppb)
MDL # 2	56.65 (ppb)	21.80 (ppb)
CCV 3	5332.40 (ppb)	2067.01 (ppb)
CCB	6.93 (ppb)	-1.97 u (ppb)
MB0712WH1	-4.54 u (ppb)	-4.31 u (ppb)
SB0712WH1	2125.63 (ppb)	2169.23 (ppb)
06-397-03a	6.19 (ppb)	-1.12 u (ppb)
06-397-03a D	-0.67 u (ppb)	0.13 u (ppb)
06-397-03a L	5.14 u (ppb)	-1.33 u (ppb)
06-397-03a MS	2148.43 (ppb)	2020.91 (ppb)
06-397-03a MSD	2152.57 (ppb)	2073.27 (ppb)
MB0712SM1	1.21 u (ppb)	-1.47 u (ppb)
SB0712SM1	2100.36 (ppb)	2143.55 (ppb)
07-034-03	41.52 (ppb)	208.10 (ppb)
CCV 4	5290.44 (ppb)	2078.86 (ppb)
CCB	-5.38 u (ppb)	-2.01 u (ppb)
07-034-03 D	46.93 (ppb)	195.44 (ppb)
07-034-03 L	10.02 u (ppb)	40.75 (ppb)
07-034-03 MS	2030.88 (ppb)	2202.65 (ppb)
07-034-03 MSD	2007.42 (ppb)	2163.11 (ppb)
07-055-01	132.95 (ppb)	467.08 (ppb)
07-055-02	83.32 (ppb)	511.52 (ppb)
07-055-03	504.30 (ppb)	415.17 (ppb)
07-056-01	254.86 (ppb)	418.40 (ppb)
07-056-02	104.22 (ppb)	317.92 (ppb)
07-056-03	512.44 (ppb)	534.57 (ppb)
CCV 5	5134.61 (ppb)	2012.58 (ppb)
CCB	-3.78 u (ppb)	-2.68 u (ppb)
07-015-01(0712WH1)	-1.91 u (ppb)	255.58 (ppb)
07-015-02	3.80 u (ppb)	331.32 (ppb)
07-015-03	4.26 u (ppb)	166.71 (ppb)
07-015-04	-3.49 u (ppb)	136.46 (ppb)
07-015-05	-4.74 u (ppb)	117.25 (ppb)
07-015-06	2.00 u (ppb)	80.22 (ppb)
07-015-07	106.78 (ppb)	141.00 (ppb)
07-015-08	101.92 (ppb)	144.95 (ppb)
07-015-09	49.58 (ppb)	181.50 (ppb)
07-015-10	21.36 (ppb)	206.51 (ppb)



# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
CCV 6	5114.06 (ppb)	2007.56 (ppb)
CCB	5.04 u (ppb)	-2.34 u (ppb)
07-015-11	26.26 (ppb)	169.84 (ppb)
07-015-12	10.07 u (ppb)	195.68 (ppb)
07-015-13	9.13 (ppb)	163.93 (ppb)
07-015-14	7.57 (ppb)	159.87 (ppb)
07-015-15	5.52 u (ppb)	73.90 (ppb)
07-015-16	6.88 (ppb)	90.54 (ppb)
07-015-17	11.96 (ppb)	83.18 (ppb)
07-050-13(0712SM1)	730.05 (ppb)	437.30 (ppb)
07-069-01	55.20 (ppb)	1000.93 (ppb)
07-057-01	208.84 (ppb)	306.77 (ppb)
CCV 7	5128.05 (ppb)	2010.43 (ppb)
CCB	-0.63 u (ppb)	-3.20 u (ppb)
07-057-02	516.98 (ppb)	325.99 (ppb)
07-034-01	47.67 (ppb)	343.76 (ppb)
07-034-02	30.90 (ppb)	197.14 (ppb)
07-047-07	5.97 (ppb)	226.99 (ppb)
CCV	5195.90 (ppb)	2024.28 (ppb)
CCB	-2.14 u (ppb)	-2.63 u (ppb)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 17, 2023

Abhijit Joshi  
GeoEngineers, Inc.  
2101 4th Avenue, Suite 950  
Seattle, WA 98121

Re: Analytical Data for Project 05147-006-17  
Laboratory Reference No. 2307-082

Dear Abhijit:

Enclosed are the analytical results and associated quality control data for samples submitted on July 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



Date of Report: July 17, 2023  
Samples Submitted: July 13, 2023  
Laboratory Reference: 2307-082  
Project: 05147-006-17

### Case Narrative

Samples were collected on July 13, 2023 and received by the laboratory on July 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 17, 2023  
Samples Submitted: July 13, 2023  
Laboratory Reference: 2307-082  
Project: 05147-006-17

### ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
B-6-4.0	07-082-01	Soil	7-13-23	7-13-23	
S-6-4.5	07-082-02	Soil	7-13-23	7-13-23	
S-18-3.25	07-082-04	Soil	7-13-23	7-13-23	



Date of Report: July 17, 2023  
 Samples Submitted: July 13, 2023  
 Laboratory Reference: 2307-082  
 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-6-4.0</b>					
Laboratory ID:	07-082-01					
Arsenic	<b>45</b>	10	EPA 6010D	7-13-23	7-13-23	
Nickel	<b>73</b>	2.6	EPA 6010D	7-13-23	7-13-23	

<b>Client ID:</b>	<b>S-18-3.25</b>					
Laboratory ID:	07-082-04					
Arsenic	<b>23</b>	10	EPA 6010D	7-13-23	7-13-23	
Nickel	<b>49</b>	2.6	EPA 6010D	7-13-23	7-13-23	



Date of Report: July 17, 2023  
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 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B-6-4.5</b>					
Laboratory ID:	07-082-02					
Arsenic	<b>ND</b>	12	EPA 6010D	7-14-23	7-14-23	
Nickel	<b>34</b>	2.9	EPA 6010D	7-14-23	7-14-23	



Date of Report: July 17, 2023  
 Samples Submitted: July 13, 2023  
 Laboratory Reference: 2307-082  
 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0713SM1					
Arsenic	ND	10	EPA 6010D	7-13-23	7-13-23	
Nickel	ND	2.5	EPA 6010D	7-13-23	7-13-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-031-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	8.50	8.40	NA	NA	NA	1	20	

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit
	07-031-01								
Arsenic	96.9	99.0	100	100	ND	97	99	75-125	2
Nickel	103	104	100	100	8.50	94	95	75-125	1



Date of Report: July 17, 2023  
 Samples Submitted: July 13, 2023  
 Laboratory Reference: 2307-082  
 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV071323B	1.00	0.977	2.3	+/- 10%
Nickel	ICV071323B	1.00	1.03	-3.0	+/- 10%
Arsenic	LLV071323B	0.0500	0.0599	-20	+/- 20%
Nickel	LLV071323B	0.0200	0.0223	-12	+/- 20%
Arsenic	CCV1071323B	5.00	5.01	-0.20	+/- 10%
Nickel	CCV1071323B	2.00	2.01	-0.50	+/- 10%
Arsenic	CCV2071323B	5.00	5.07	-1.4	+/- 10%
Nickel	CCV2071323B	2.00	2.01	-0.50	+/- 10%
Arsenic	CCV3071323B	5.00	5.12	-2.4	+/- 10%
Nickel	CCV3071323B	2.00	2.02	-1.0	+/- 10%
Arsenic	CCV4071323B	5.00	5.15	-3.0	+/- 10%
Nickel	CCV4071323B	2.00	2.03	-1.5	+/- 10%
Arsenic	CCV5071323B	5.00	5.25	-5.0	+/- 10%
Nickel	CCV5071323B	2.00	2.07	-3.5	+/- 10%





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 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0714SM1					
Arsenic	ND	10	EPA 6010D	7-14-23	7-14-23	
Nickel	ND	2.5	EPA 6010D	7-14-23	7-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-098-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Nickel	10.1	10.0	NA	NA	NA	0	20	

**MATRIX SPIKES**

Laboratory ID:	MS	MSD	MS	MSD	MS	MSD	MSD	RPD	RPD Limit	Flags
	07-098-01									
Arsenic	94.2	98.0	100	100	ND	94	98	75-125	4	20
Nickel	106	106	100	100	10.1	96	96	75-125	0	20



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 Project: 05147-006-17

**TOTAL METALS  
 EPA 6010D  
 CONTINUING CALIBRATION SUMMARY**

<b>Analyte</b>	<b>Lab ID</b>	<b>True Value (ppm)</b>	<b>Calc. Value</b>	<b>Percent Difference</b>	<b>Control Limits</b>
Arsenic	ICV071423B	1.00	0.958	4.2	+/- 10%
Nickel	ICV071423B	1.00	1.02	-2.0	+/- 10%
Arsenic	LLV071423B	0.0500	0.0516	-3.2	+/- 20%
Nickel	LLV071423B	0.0200	0.0222	-11	+/- 20%
Arsenic	CCV1071423B	5.00	5.18	-3.6	+/- 10%
Nickel	CCV1071423B	2.00	2.02	-1.0	+/- 10%
Arsenic	CCV2071423B	5.00	5.18	-3.6	+/- 10%
Nickel	CCV2071423B	2.00	2.04	-2.0	+/- 10%
Arsenic	CCV3071423B	5.00	5.17	-3.4	+/- 10%
Nickel	CCV3071423B	2.00	2.04	-2.0	+/- 10%
Arsenic	CCV4071423B	5.00	5.08	-1.6	+/- 10%
Nickel	CCV4071423B	2.00	2.02	-1.0	+/- 10%
Arsenic	CCV5071423B	5.00	5.09	-1.8	+/- 10%
Nickel	CCV5071423B	2.00	2.05	-2.5	+/- 10%



Date of Report: July 17, 2023  
Samples Submitted: July 13, 2023  
Laboratory Reference: 2307-082  
Project: 05147-006-17

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>B-6-4.0</b>	07-082-01	<b>3</b>	7-13-23
<b>B-6-4.5</b>	07-082-02	<b>13</b>	7-14-23
<b>S-18-3.25</b>	07-082-04	<b>4</b>	7-13-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





# MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • www.onsite-env.com

## Chain of Custody

Turnaround Request  
(in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: 07-082

07-082

Company: **GEORGIN/EERS**

Project Number: **05/17-006-17**

Project Name: **POA - DCE CLEAN UP ACTION**

Project Manager: **ARHEILT JOSEPH**

Sampled by: **NATHAN SOLOMON**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	B-0-40	7/13/23	1146	SOIL	1
2	B-0-45		1145		1
3	B-6-50		1150		1
4	S-18-3.25		1200		1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/&gt;)&lt;/th&gt; &lt;th&gt;NWTPH-Gx&lt;/th&gt; &lt;th&gt;NWTPH-Dx (SG Clean-up &lt;input type="/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	As	Ni	Moisture				
1	B-0-40	7/13/23	1146	SOIL	1																						
2	B-0-45		1145		1																						
3	B-6-50		1150		1																						
4	S-18-3.25		1200		1																						

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	7/13/23	1250	⊗ Added 7/14/23. DB (same day)
Received		ARHEILT	7/13/23	10:50	
Relinquished		ARHEILT	7/13/23	1416	
Received		ARHEILT	7/13/23	1416	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date					

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)

# Sample/Cooler Receipt and Acceptance Checklist

Client: GERS

Client Project Name/Number: 05147-006-17

OnSite Project Number: 07-082

Initiated by: MM

Date Initiated: 7/13/23

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	<input checked="" type="radio"/> No	N/A	Temperature:	<u>22</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A			
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1 2 3 4	

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1 2 3 4	

### Explain any discrepancies:

- 1 - Discuss issue in Case Narrative
- 2 - Process Sample As-is

- 3 - Client contacted to discuss problem
- 4 - Sample cannot be analyzed or client does not wish to proceed

## RAW DATA

- Total Metals EPA 6010D

Total Metals  
EPA 6010D Data





*KH 7/13/23*

### Summary

Worksheet Name	B230713A.esws	Created Date/Time (local)	7/13/2023 9:54:38 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/13/2023 4:54:38 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B230713A.esws		

Notes



Results

Solution Label	As A (188.980 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	977.15 (ppb)	1031.63 (ppb)
ICB	12.02 (ppb)	0.46 u (ppb)
LLV	59.87 (ppb)	22.25 Q (ppb)
CCV	5014.84 (ppb)	2013.93 (ppb)
CCB	17.24 (ppb)	2.38 (ppb)
ICSA	23.26 (ppb)	3.82 (ppb)
ICSAB	2287.32 (ppb)	816.95 (ppb)
MB0713SM1	-0.43 u (ppb)	0.25 u (ppb)
SB0713SM1	1930.16 (ppb)	2002.20 (ppb)
07-031-01a	69.38 (ppb)	170.16 (ppb)
07-031-01a D	67.14 (ppb)	168.08 (ppb)
07-031-01a L	16.38 (ppb)	35.84 (ppb)
07-031-01a MS	1938.21 (ppb)	2056.37 (ppb)
07-031-01a MSD	1978.64 (ppb)	2077.69 (ppb)
07-031-02a	536.44 (ppb)	188.20 (ppb)
CCV	5073.56 (ppb)	2006.75 (ppb)
CCB	16.11 (ppb)	-1.75 u (ppb)
07-031-03a	256.01 (ppb)	170.65 (ppb)
07-031-04a	95.65 (ppb)	170.17 (ppb)
07-054-01	59.15 (ppb)	438.32 (ppb)
07-054-02	45.92 (ppb)	391.98 (ppb)
07-054-03	140.30 (ppb)	439.49 (ppb)
MB0706F1 X 1.11	1.78 u (ppb)	0.44 (ppb)
SB0706F1 X 1.11	1.18 u (ppb)	-1.90 u (ppb)

# Test Report



Agilent Technologies

Solution Label	As A (188.980 nm)	Ni (231.604 nm)
07-025-01a X 1.11	1.02 u (ppb)	22.44 (ppb)
07-025-01a D X 1.11	6.34 (ppb)	24.18 (ppb)
07-025-01a L	-0.75 u (ppb)	7.50 (ppb)
CCV	5119.27 (ppb)	2023.79 (ppb)
CCB	11.74 (ppb)	-1.22 u (ppb)
07-025-01a MS X 1.11	6.21 (ppb)	24.49 (ppb)
07-025-01a MSD X 1.11	2.13 u (ppb)	21.87 (ppb)
06-397-02a MSD X 5(0710WH2)	414.41 (ppb)	411.78 (ppb)
07-077-01(0713SM1)	115.64 (ppb)	1821.02 (ppb)
07-077-02	78.51 (ppb)	1308.33 (ppb)
07-077-03	88.98 (ppb)	867.59 (ppb)
07-077-04	99.24 (ppb)	917.29 (ppb)
MB0713WH1	3.45 (ppb)	-0.35 u (ppb)
SB0713WH1	1928.03 (ppb)	1919.72 (ppb)
07-049-06b	10.37 (ppb)	0.75 u (ppb)
CCV	5150.36 (ppb)	2033.07 (ppb)
CCB	11.96 (ppb)	0.39 u (ppb)
07-049-06b D	3.74 (ppb)	1.33 (ppb)
07-049-06b L	0.41 u (ppb)	1.19 u (ppb)
07-049-06b MS	1935.63 (ppb)	1920.45 (ppb)
07-049-06b MSD	1986.85 (ppb)	1950.97 (ppb)
07-082-01(0713SM1)	876.46 (ppb)	1416.67 (ppb)
07-082-04	440.75 (ppb)	945.22 (ppb)
07-078-01a	260.63 (ppb)	440.75 (ppb)
07-078-02a	105.43 (ppb)	355.59 (ppb)
07-078-03a	161.81 (ppb)	553.67 (ppb)
07-078-04a	149.95 (ppb)	320.29 (ppb)
CCV	5248.69 (ppb)	2067.39 (ppb)
CCB	12.52 (ppb)	-1.60 u (ppb)
07-045-04(0713WH1)	1.74 (ppb)	3.25 (ppb)
07-053-01	5.00 (ppb)	2.94 (ppb)
07-049-01b	3.62 (ppb)	4.26 (ppb)
07-049-02b	3.80 (ppb)	2.33 (ppb)
07-049-03b	4.96 (ppb)	3.03 (ppb)
07-049-04b	3.27 (ppb)	2.43 (ppb)



## Summary

Worksheet Name	B230714A.esws	Created Date/Time (local)	7/14/2023 10:08:56 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	7/14/2023 5:08:56 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B230714A.esws		

Notes



## Results

Solution Label	As (193.696 nm)	Ni (231.604 nm)
Blank	0.00 (ppb)	0.00 (ppb)
Optional Standard		
Standard 5	50.00 (ppb)	20.00 (ppb)
Standard 4	500.00 (ppb)	200.00 (ppb)
Standard 3	5000.00 (ppb)	2000.00 (ppb)
Standard 2	12500.00 (ppb)	5000.00 (ppb)
Standard 1		10000.00 (ppb)
SI 100		
SI 1000		
SI 5000		
ICV	958.36 (ppb)	1016.88 (ppb)
ICB	-2.13 u (ppb)	0.36 u (ppb)
LLV	51.61 (ppb)	22.16 Q (ppb)
CCV	5178.60 (ppb)	2015.37 (ppb)
SI CCV	-6.03 Su (ppb)	-0.09 Su (ppb)
CCB	-3.86 u (ppb)	-1.33 u (ppb)
ICSA	10.82 u (ppb)	1.54 (ppb)
ICSAB	2362.45 (ppb)	826.42 (ppb)
MB0706F1 X 1.11	2.22 u (ppb)	-0.50 u (ppb)
SB0706F1 X 1.11	4.14 (ppb)	-0.75 u (ppb)
07-025-01b X 10	-7.34 u (ppb)	2.07 (ppb)
07-025-01b D X 10	-8.27 u (ppb)	1.52 u (ppb)
07-025-01b L	-3.65 u (ppb)	0.00 u (ppb)
07-025-01b MS X 10	1.24 u (ppb)	1.84 (ppb)
07-025-01b MSD X 10	-4.56 u (ppb)	4.13 (ppb)
07-025-01b L	3.59 (ppb)	-0.30 u (ppb)
CCV	5179.96 (ppb)	2043.63 (ppb)
SI CCV	3.35 Su (ppb)	2.07 Su (ppb)
CCB	-1.41 u (ppb)	0.57 u (ppb)
07-045-04(0713WH1)	1.32 u (ppb)	2.11 (ppb)
07-053-01	-1.38 u (ppb)	2.96 (ppb)
07-049-01b	-2.30 u (ppb)	1.60 (ppb)
07-048-02b	7.17 u (ppb)	0.89 u (ppb)
07-049-03b	-8.49 u (ppb)	2.38 (ppb)

# Test Report



Agilent Technologies

Solution Label	As (193.696 nm)	Ni (231.604 nm)
07-049-04b	2.15 u (ppb)	0.90 u (ppb)
07-049-05b	2.70 u (ppb)	2.61 (ppb)
07-049-07b	2.54 u (ppb)	0.30 (ppb)
MB0713TM1	-1.90 u (ppb)	2.51 (ppb)
SB0713TM1	2011.07 (ppb)	1973.50 (ppb)
CCV	5168.35 (ppb)	2044.52 (ppb)
CCB	2.75 u (ppb)	-1.16 u (ppb)
07-019-01a(0710SM1) P.SPK	2022.81 (ppb)	2392.25 (ppb)
07-028-01b	41.00 (ppb)	301.35 (ppb)
06-292-01(0714TM1)	3.98 u (ppb)	7.46 (ppb)
06-292-01 D	-0.48 u (ppb)	7.55 (ppb)
06-292-01 L	0.29 u (ppb)	2.14 (ppb)
07-028-01b90711SM1)	35.35 (ppb)	258.18 (ppb)
06-292-01 MS	1914.61 (ppb)	1845.52 (ppb)
06-292-01 MSD	1878.50 (ppb)	1870.45 (ppb)
06-295-03	-5.87 u (ppb)	67.36 (ppb)
06-327-01	26.56 (ppb)	0.63 u (ppb)
CCV	5077.74 (ppb)	2018.23 (ppb)
CCB	-0.76 u (ppb)	-0.20 u (ppb)
06-366-01	-10.80 u (ppb)	1597.65 (ppb)
06-375-01	-0.20 u (ppb)	318.96 (ppb)
MB0714SM1	-0.65 u (ppb)	-1.00 u (ppb)
SB0714SM1	2015.94 (ppb)	2102.06 (ppb)
07-098-01a	43.99 (ppb)	201.25 (ppb)
07-098-01a D	50.81 (ppb)	199.96 (ppb)
07-098-01a L	13.49 (ppb)	42.48 (ppb)
07-098-01a MS	1883.78 (ppb)	2117.72 (ppb)
07-098-01a MSD	1959.65 (ppb)	2210.85 (ppb)
07-082-02	67.67 (ppb)	594.58 (ppb)
CCV	5093.28 (ppb)	2052.40 (ppb)
CCB	-4.34 u (ppb)	0.13 u (ppb)

**APPENDIX F**  
**Data Validation Report**

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**Project:** Dakota Creek Industries – Cleanup Action  
June and July 2023 Soil Sampling Events

**GEI File No:** 5147-006-17

**Date:** November 6, 2023

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This report documents the results of data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of soil samples collected as part of soil removal activities completed in 2023 at Dakota Creek Industries (DCI) Site, and the associated laboratory and field quality control (QC) samples. The DCI Site is located at 155 Q Avenue (north of 3<sup>rd</sup> Street between Commercial Avenue and R Avenue) in Anacortes, Washington.

## OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates

## VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.



**TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS**

Laboratory SDG	Samples Validated
2306-321	B-8-6, S-2-2, S-3-1.25, S-4-0.5, S-5-0.5, S-6-0.5, S-7-1.25, S-8-2, S-9-2, S-10-2, S-13-1.75
2306-359	B-1-1, B-2-1
2306-393	S-7A-1.25
2307-024	B-4-2.5, B-4-3.5, B-5-2.5, B-5-3.5, B-9-4, S-1-2, DUP-1
2307-037	B-10-4, B-11-4
2307-044	B-12-4, B-13-4, B-14-4, DUP-2
2307-050	B-3-2.5, B-4-4, B-6-2.5, B-6-3.5, B-7-2.5, S-11-3.25, S-12-5, S-14-5, S-15-4.5, S-16-4.25, S-17-5
2307-082	B-6-4.0, S-6-4.5, S-18-3.25

## CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following method:

- Total Metals by Methods SW6010D.

## DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

### Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

### Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

### Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2 and 6 degrees Celsius.

### Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits.

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

### Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

### Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

### Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory

documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

### Field Duplicates

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent.

**SDG 2307-024:** One field duplicate sample pair, S-1-2 and DUP-1, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

**SDG 2307-044:** One field duplicate sample pair, B-14-4 and DUP-2, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

### OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

### REFERENCES

- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

**APPENDIX G**  
**Laboratory Reports for Import Material Sample**



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 18, 2023

Darren Ness  
Holt Services, Inc.  
3203 15th Street  
Everett, WA 98201

Re: Analytical Data for Project 0332-70.23  
Laboratory Reference No. 2307-099

Dear Darren:

Enclosed are the analytical results and associated quality control data for samples submitted on July 14, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 18, 2023  
Samples Submitted: July 14, 2023  
Laboratory Reference: 2307-099  
Project: 0332-70.23

### Case Narrative

Samples were collected on July 14, 2023 and received by the laboratory on July 14, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### NWTPH Gx/BTEX Analysis

Method 5035A VOA vials were not provided for sample MILES CRUSHED ROCK. The sample was therefore extracted from an 8-ounce jar and analyzed. Some loss of volatiles may have occurred.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**GASOLINE RANGE ORGANICS/BTEX  
 NWTPH-Gx/EPA 8021B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Benzene	ND	0.020	EPA 8021B	7-14-23	7-14-23	
Toluene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
Ethylbenzene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
m,p-Xylene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
o-Xylene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
Gasoline	ND	5.0	NWTPH-Gx	7-14-23	7-14-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	65-126				



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**GASOLINE RANGE ORGANICS/BTEX  
 NWTPH-Gx/EPA 8021B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0714S2					
Benzene	ND	0.020	EPA 8021B	7-14-23	7-14-23	
Toluene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
Ethylbenzene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
m,p-Xylene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
o-Xylene	ND	0.050	EPA 8021B	7-14-23	7-14-23	
Gasoline	ND	5.0	NWTPH-Gx	7-14-23	7-14-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	107	65-126				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-098-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethylbenzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				109	106	65-126		

**SPIKE BLANKS**

Laboratory ID:	SB0714S1							
	SB	SBD	SB	SBD	SB	SBD		
Benzene	1.10	1.06	1.00	1.00	110	106	77-113	4 10
Toluene	1.10	1.09	1.00	1.00	110	109	81-115	1 10
Ethylbenzene	1.10	1.08	1.00	1.00	110	108	80-115	2 10
m,p-Xylene	1.10	1.10	1.00	1.00	110	110	81-115	0 11
o-Xylene	1.10	1.09	1.00	1.00	110	109	82-115	1 11
<i>Surrogate:</i>								
<i>Fluorobenzene</i>					96	95	65-126	





Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**DIESEL AND HEAVY OIL RANGE ORGANICS  
 NWTPH-Dx**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Diesel Range Organics	<b>ND</b>	26	NWTPH-Dx	7-17-23	7-17-23	
Lube Oil Range Organics	<b>ND</b>	51	NWTPH-Dx	7-17-23	7-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**DIESEL AND HEAVY OIL RANGE ORGANICS  
 NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0717S1					
Diesel Range Organics	<b>ND</b>	25	NWTPH-Dx	7-17-23	7-17-23	
Lube Oil Range Organics	<b>ND</b>	50	NWTPH-Dx	7-17-23	7-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-046-01							
	ORIG	DUP						
Diesel Range	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	40	
Lube Oil	<b>927</b>	<b>1170</b>	NA	NA	NA	23	40	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				78	83	50-150		



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**PAHs EPA 8270E/SIM**

Matrix: Solid  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Naphthalene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
2-Methylnaphthalene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
1-Methylnaphthalene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Acenaphthylene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Acenaphthene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Fluorene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Phenanthrene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Anthracene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Fluoranthene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Pyrene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[a]anthracene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Chrysene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[b]fluoranthene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo(j,k)fluoranthene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[a]pyrene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Dibenz[a,h]anthracene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[g,h,i]perylene	ND	0.0068	EPA 8270E/SIM	7-17-23	7-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>39-111</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>47-114</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>44-121</i>				



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**PAHs EPA 8270E/SIM  
 QUALITY CONTROL**

Matrix: Solid  
 Units: mg/Kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0717S1					
Naphthalene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
2-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
1-Methylnaphthalene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Acenaphthylene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Acenaphthene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Fluorene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Phenanthrene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Anthracene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Fluoranthene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Pyrene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[a]anthracene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Chrysene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[a]pyrene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270E/SIM	7-17-23	7-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>39-111</i>				
<i>Pyrene-d10</i>	<i>89</i>	<i>47-114</i>				
<i>Terphenyl-d14</i>	<i>88</i>	<i>44-121</i>				



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**PAHs EPA 8270E/SIM  
 QUALITY CONTROL**

Matrix: Solid  
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
							Limits		Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0717S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	<b>0.0594</b>	<b>0.0601</b>	0.0833	0.0833	71	72	57-116	1	16	
Acenaphthylene	<b>0.0690</b>	<b>0.0688</b>	0.0833	0.0833	83	83	59-124	0	15	
Acenaphthene	<b>0.0663</b>	<b>0.0655</b>	0.0833	0.0833	80	79	59-124	1	15	
Fluorene	<b>0.0717</b>	<b>0.0718</b>	0.0833	0.0833	86	86	62-122	0	15	
Phenanthrene	<b>0.0736</b>	<b>0.0737</b>	0.0833	0.0833	88	88	62-119	0	15	
Anthracene	<b>0.0712</b>	<b>0.0707</b>	0.0833	0.0833	85	85	64-123	1	15	
Fluoranthene	<b>0.0804</b>	<b>0.0784</b>	0.0833	0.0833	97	94	63-123	3	15	
Pyrene	<b>0.0772</b>	<b>0.0779</b>	0.0833	0.0833	93	94	62-124	1	15	
Benzo[a]anthracene	<b>0.0771</b>	<b>0.0717</b>	0.0833	0.0833	93	86	59-131	7	15	
Chrysene	<b>0.0766</b>	<b>0.0822</b>	0.0833	0.0833	92	99	61-124	7	15	
Benzo[b]fluoranthene	<b>0.0836</b>	<b>0.0856</b>	0.0833	0.0833	100	103	60-126	2	15	
Benzo(j,k)fluoranthene	<b>0.0787</b>	<b>0.0758</b>	0.0833	0.0833	94	91	63-121	4	17	
Benzo[a]pyrene	<b>0.0750</b>	<b>0.0757</b>	0.0833	0.0833	90	91	60-122	1	15	
Indeno(1,2,3-c,d)pyrene	<b>0.0712</b>	<b>0.0725</b>	0.0833	0.0833	85	87	58-127	2	15	
Dibenz[a,h]anthracene	<b>0.0760</b>	<b>0.0768</b>	0.0833	0.0833	91	92	60-124	1	15	
Benzo[g,h,i]perylene	<b>0.0761</b>	<b>0.0757</b>	0.0833	0.0833	91	91	58-124	1	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					75	76	39-111			
Pyrene-d10					86	90	47-114			
Terphenyl-d14					90	86	44-121			



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**PCBs EPA 8082A**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Aroclor 1016	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1221	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1232	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1242	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1248	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1254	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1260	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1262	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1268	ND	0.025	EPA 8082A	7-17-23	7-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	92	50-127				



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**PCBs EPA 8082A  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0717S1					
Aroclor 1016	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1221	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1232	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1242	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1248	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1254	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1260	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1262	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Aroclor 1268	ND	0.025	EPA 8082A	7-17-23	7-17-23	
Surrogate:	Percent Recovery	Control Limits				
DCB	88	50-127				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>											
Laboratory ID:	SB0717S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.491	0.367	0.500	0.500	N/A	98	73	55-119	29	34	
Surrogate:											
DCB						100	75	50-127			



Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**TOTAL METALS  
 EPA 6010D/7471B**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Arsenic	<b>ND</b>	5.1	EPA 6010D	7-14-23	7-14-23	
Cadmium	<b>ND</b>	0.51	EPA 6010D	7-14-23	7-14-23	
Chromium	<b>11</b>	0.51	EPA 6010D	7-14-23	7-14-23	
Lead	<b>ND</b>	5.1	EPA 6010D	7-14-23	7-14-23	
Mercury	<b>0.21</b>	0.049	EPA 7471B	7-18-23	7-18-23	
Nickel	<b>24</b>	2.6	EPA 6010D	7-14-23	7-14-23	





Date of Report: July 18, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099  
 Project: 0332-70.23

**TOTAL METALS  
 EPA 6010D/7471B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0714SM2					
Arsenic	ND	5.0	EPA 6010D	7-14-23	7-14-23	
Cadmium	ND	0.50	EPA 6010D	7-14-23	7-14-23	
Chromium	ND	0.50	EPA 6010D	7-14-23	7-14-23	
Lead	ND	5.0	EPA 6010D	7-14-23	7-14-23	
Nickel	ND	2.5	EPA 6010D	7-14-23	7-14-23	

Laboratory ID:	MB0718S1					
Mercury	ND	0.048	EPA 7471B	7-18-23	7-18-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	07-101-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	23.6	27.7	NA	NA	NA	NA	16	20
Lead	5.35	6.45	NA	NA	NA	NA	19	20
Nickel	35.7	33.8	NA	NA	NA	NA	5	20

Laboratory ID:	07-091-05							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	07-101-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	96.7	91.0	100	100	ND	97	91	75-125	6	20
Cadmium	50.7	47.9	50.0	50.0	ND	101	96	75-125	6	20
Chromium	121	115	100	100	23.6	98	92	75-125	5	20
Lead	257	243	250	250	5.35	101	95	75-125	6	20
Nickel	134	128	100	100	35.7	98	92	75-125	4	20

Laboratory ID:	07-091-05									
Mercury	0.502	0.506	0.500	0.500	0.0137	98	99	80-120	1	20



Date of Report: July 18, 2023  
Samples Submitted: July 14, 2023  
Laboratory Reference: 2307-099  
Project: 0332-70.23

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>MILES CRUSHED ROCK</b>	07-099-01	<b>2</b>	7-14-23





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
  - X2 - Sample extract treated with a silica gel cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





**OnSite Environmental Inc.**  
 Analytical Laboratory Testing Services  
 14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • www.onsite-env.com

# Chain of Custody

**07-099**

Turnaround Request  
 (in working days)  
 (Check One)  
 Same Day     1 Day  
 2 Days     3 Days  
 Standard (7 Days)  
 \_\_\_\_\_ (other)

Company: **Holt Services, Inc.**  
 Project Number: **0332-78-23**  
 Project Name: **BUREAU CREAL**  
 Project Manager: **DARREN WESS**  
 Sampled by: **DARREN WESS**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Number:															
						NWTPH-HCID	NWTPH-Gx/BTEX (8021) 8260 <input checked="" type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals <b>+ NICKEL</b>	TCLP Metals
1	WESS CRUSHED ROCK	7/14/23	10:24	CRUSHED ROCK	2	X			X											X	

Signature:

Relinquished  
 Received  
 Relinquished  
 Received  
 Relinquished  
 Received  
 Relinquished  
 Received

Company: **Holt Services**  
 Reviewed/Date: \_\_\_\_\_

Date: **7/14/23** Time: **12:21**

Comments/Special Instructions:  
 Data Package:  Standard  Level III  Level IV   
 Chromatograms with final report  Electronic Data Deliverables (EDDs)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 20, 2023

Darren Ness  
Holt Services, Inc.  
3203 15th Street  
Everett, WA 98201

Re: Analytical Data for Project 0332-70.23  
Laboratory Reference No. 2307-099B

Dear Darren:

Enclosed are the analytical results and associated quality control data for samples submitted on July 14, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 20, 2023  
Samples Submitted: July 14, 2023  
Laboratory Reference: 2307-099B  
Project: 0332-70.23

### Case Narrative

Samples were collected on July 14, 2023 and received by the laboratory on July 14, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Total Mercury EPA 7471B Analysis

The duplicate RPD for Mercury is outside control limits due to sample inhomogeneity.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 20, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099B  
 Project: 0332-70.23

**TOTAL MERCURY**  
**EPA 7471B**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MILES CRUSHED ROCK</b>					
Laboratory ID:	07-099-01					
Mercury	<b>0.030</b>	0.020	EPA 7471B	7-20-23	7-20-23	



Date of Report: July 20, 2023  
 Samples Submitted: July 14, 2023  
 Laboratory Reference: 2307-099B  
 Project: 0332-70.23

**TOTAL MERCURY  
 EPA 7471B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0720S1					
Mercury	<b>ND</b>	0.020	EPA 7471B	7-20-23	7-20-23	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	07-099-01							
	ORIG	DUP						
Mercury	<b>0.0293</b>	<b>0.0941</b>	NA	NA	NA	NA	105	20 L

**MATRIX SPIKES**

Laboratory ID:	07-099-01								
	MS	MSD	MS	MSD	MS	MSD			
Mercury	<b>0.515</b>	<b>0.499</b>	0.500	0.500	0.0293	<b>97</b>	<b>94</b>	80-120	3 20





Date of Report: July 20, 2023  
Samples Submitted: July 14, 2023  
Laboratory Reference: 2307-099B  
Project: 0332-70.23

**% MOISTURE**

<b>Client ID</b>	<b>Lab ID</b>	<b>% Moisture</b>	<b>Date Analyzed</b>
<b>MILES CRUSHED ROCK</b>	07-099-01	<b>2</b>	7-14-23





### Data Qualifiers and Abbreviations

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  - E - The value reported exceeds the quantitation range and is an estimate.
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  - I - Compound recovery is outside of the control limits.
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  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
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  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
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  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
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  - X2 - Sample extract treated with a silica gel cleanup procedure.
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- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





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# Chain of Custody

**07-099**

**Turnaround Request (in working days)**  
(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Company: Holt Services, Inc.  
 Project Number: 0332-78-23  
 Project Name: DWIGHT CREEK  
 Project Manager: DIANE RUHLES  
 Sampled by: DAVID ALVAREZ

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
<u>1</u>	<u>WTERS CRUSHED ROCK</u>	<u>7/13/23</u>	<u>1024</u>	<u>CRUSHED ROCK</u>	<u>2</u>

**Laboratory Number:**

NWTPH-HCID	<input type="checkbox"/>
NWTPH-Gx/BTEX (80210 8260 <input type="checkbox"/> )	<input checked="" type="checkbox"/>
NWTPH-Gx	<input type="checkbox"/>
NWTPH-Dx (SG Clean-up <input type="checkbox"/> )	<input checked="" type="checkbox"/>
Volatiles 8260	<input type="checkbox"/>
Halogenated Volatiles 8260	<input type="checkbox"/>
EDB EPA 8011 (Waters Only)	<input type="checkbox"/>
Semivolatiles 8270/SIM (with low-level PAHs)	<input type="checkbox"/>
PAHs 8270/SIM (low-level)	<input checked="" type="checkbox"/>
PCBs 8082	<input checked="" type="checkbox"/>
Organochlorine Pesticides 8081	<input type="checkbox"/>
Organophosphorus Pesticides 8270/SIM	<input type="checkbox"/>
Chlorinated Acid Herbicides 8151	<input type="checkbox"/>
Total RCRA Metals	<input type="checkbox"/>
Total MTCA Metals <u>+ NICKEL</u>	<input checked="" type="checkbox"/>
TCLP Metals	<input type="checkbox"/>
HEM (oil and grease) 1664	<input type="checkbox"/>
<u>TOTAL MERCURY - RE-ANALYSIS</u>	<input checked="" type="checkbox"/>
% Moisture	<input checked="" type="checkbox"/>

**Comments/Special Instructions**  
(X) Added 7/20/23. DB (Same day)

Signature	Company	Date	Time
<u>[Signature]</u>	<u>Holt Services</u>	<u>7/14/23</u>	<u>12:21</u>

Data Package: Standard  Level III  Level IV   
 Chromatograms with final report  Electronic Data Deliverables (EDDs)

Reviewed/Date

**APPENDIX H**  
**Backfill Compaction Reports**



An RMA Company

### FIELD DENSITY/MOISTURE REPORT

### Nuclear Gauge \* ASTM D6938

<b>PROJECT:</b>	Dakota Creek Industries Cleanup	<b>JOB #:</b>	23-2080
<b>ADDRESS:</b>	820 4th Street, Anacortes, WA	<b>REPORT #:</b>	FD001
<b>PERMIT #:</b>		<b>DATE:</b>	7/24/2023
<b>CLIENT:</b>	Holt Services	<b>PAGE #:</b>	1 of 2
<b>CONTRACTOR:</b>		<b>INSPECTOR:</b>	Sarah Vanlandingham

Compaction Of: Lot Backfill

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	SE Corner	-3	DT/10	132.5	3.1	128.5	1	100	95	P
2	NE Corner	-3	DT/10	131.8	2.8	128.2	1	100	95	P
3	NW Corner	-2	DT/10	131.7	3.0	127.9	1	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-6593A	CSBC	Miles S&G - Belleville	128.6	4.0	72	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: InstroTek/3500/1505      M/D Standard Count: 717/2204      Calibration Date: 12/3/22

Comments: GeoTest was on-site to perform compaction testing during structural fill placement. Structural fill was placed in ~12" loose lifts and was compacted using a double drum vibratory roller to a firm, non-yielding condition. All tests attained the required compaction. The contractor was informed of the results prior to departure.

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This report shall not be reproduced except in full, without the written approval of GeoTest Services, Inc.  
The above test results relate only to the sample (or location) tested.

## FIELD DENSITY/MOISTURE REPORT

### Nuclear Gauge \* ASTM D6938

**PROJECT:** Dakota Creek Industries Cleanup  
**CLIENT:** Holt Services  
**CONTRACTOR:**

**JOB #:** 23-2080  
**REPORT #:** FD001  
**PAGE #:** 2 of 2

Image 1: Test #1





An RMA Company

### FIELD DENSITY/MOISTURE REPORT

#### Nuclear Gauge \* ASTM D6938

<b>PROJECT:</b>	Dakota Creek Industries Cleanup	<b>JOB #:</b>	23-2080
<b>ADDRESS:</b>	820 4th Street, Anacortes, WA	<b>REPORT #:</b>	FD002
<b>PERMIT #:</b>		<b>DATE:</b>	7/25/2023
<b>CLIENT:</b>	Holt Services	<b>PAGE #:</b>	1 of 2
<b>CONTRACTOR:</b>		<b>INSPECTOR:</b>	Sarah Vanlandingham

Compaction Of: Lot Backfill

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	NE Corner	-3	DT/12	130.1	3.2	126.1	1	98	95	P
2	E Side	-2	DT/12	131.2	3.2	127.1	1	99	95	P
3	S Side	-2	DT/12	130.4	2.8	126.8	1	99	95	P
4	NW Corner	-1	DT/12	131.8	3.5	127.3	1	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-6593A	CSBC	Miles S&G - Belleville	128.6	4.0	72	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: InstroTek/3500/1505	M/D Standard Count: 717/2204	Calibration Date: 12/3/22
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Comments: GeoTest was on-site to perform compaction testing during structural fill placement. Structural fill was placed in ~12" loose lifts and was compacted using a double drum vibratory roller to a firm, non-yielding condition. All tests attained the required compaction. The contractor was informed of the results prior to departure.

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## FIELD DENSITY/MOISTURE REPORT

### Nuclear Gauge \* ASTM D6938

**PROJECT:** Dakota Creek Industries Cleanup  
**CLIENT:** Holt Services  
**CONTRACTOR:**

**JOB #:** 23-2080  
**REPORT #:** FD002  
**PAGE #:** 2 of 2

Image 1:







An RMA Company

### FIELD DENSITY/MOISTURE REPORT

### Nuclear Gauge \* ASTM D6938

<b>PROJECT:</b>	Dakota Creek Industries Cleanup	<b>JOB #:</b>	23-2080
<b>ADDRESS:</b>	820 4th Street, Anacortes, WA	<b>REPORT #:</b>	FD003
<b>PERMIT #:</b>		<b>DATE:</b>	7/26/2023
<b>CLIENT:</b>	Holt Services	<b>PAGE #:</b>	1 of 2
<b>CONTRACTOR:</b>		<b>INSPECTOR:</b>	Jordan Clontz

Compaction Of: Base Course and Top Course Lot Backfill

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	Southwest Corner	-1	DT/12	131.2	3.2	128.5	1	100	95	P
2	Northwest Corner	TOG	DT/4	136.4	4.1	131.5	2	96	95	P
3	Middle of Area	TOG	DT/4	135.1	3.6	130.7	2	95	95	P
4	Northeast Corner	TOG	DT/4	134.8	3.2	130.1	2	95	95	P
5	Southeast Corner	TOG	DT/4	136.5	5.3	129.6	2	95	95	P
6	Southwest Corner	TOG	DT/4	135.8	4.6	130.0	2	95	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-6593A	CSBC	Miles S&G - Belleville	128.6	4.0	NA	ASTM D1557/D4718
2-6594A	CSTC	Miles S&G - Belleville	137.1	6.2	NA	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Instrotek 3500 / 4152	M/D Standard Count: 721 / 2600	Calibration Date: 10/13/2022
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Comments: GeoTest was on-site to perform compaction testing during structural fill placement. CSTC fill was placed in a single 6" loose lift and compacted using a single drum vibratory roller to a firm, non-yielding condition. All tests attained the required compaction. The contractor was informed of the results prior to departure.

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**FIELD DENSITY/MOISTURE REPORT**  
**Nuclear Gauge \* ASTM D6938**

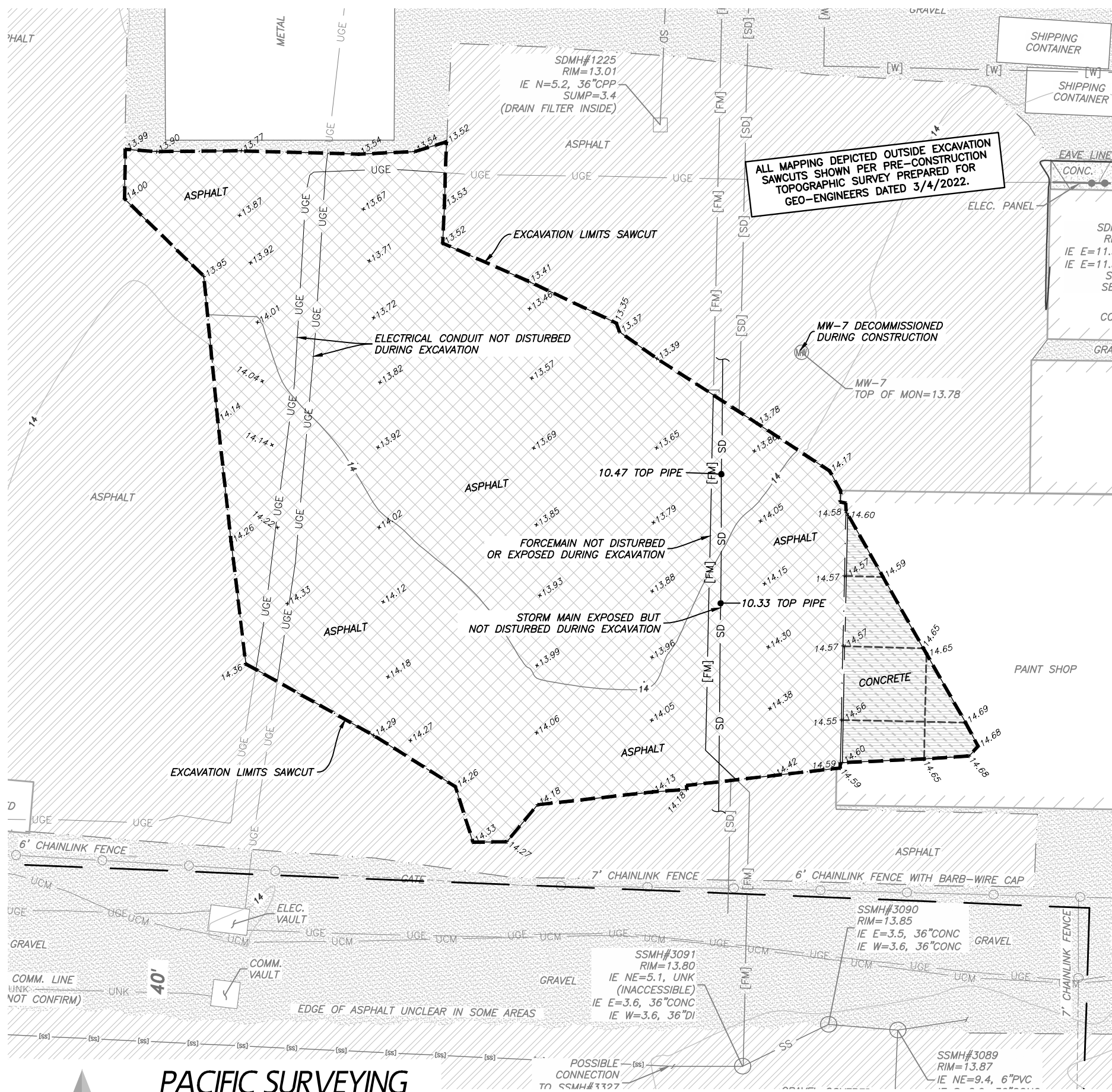
**PROJECT:** Dakota Creek Industries Cleanup  
**CLIENT:** Holt Services  
**CONTRACTOR:**

**JOB #:** 23-2080  
**REPORT #:** FD003  
**PAGE #:** 2 of 2

Image 1 - Compaction of CSTC



**APPENDIX I**  
**As-Built Survey**



## SURVEY NOTES

- 1) THIS TOPOGRAPHIC SURVEY WAS PERFORMED AND PREPARED IN ACCORDANCE WITH WAC 332-130-145.
- 2) DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION AUGUST 9, 2023.
- 3) EQUIPMENT USED: THEOMAT 00'01.5"  
EDM: ± 2 PPM, ± 3 MM
- 4) HORIZONTAL DATUM: NAD 83/91, WASHINGTON STATE PLANE NORTH ZONE.
- 5) VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW) ON NOAA TIDAL DATUM EPOCH 1941-1959, BASED ON PORT OF ANACORTES SURVEY CONTROL MONUMENT "JETTY-2".
- 6) CONTOURS DEPICTED HEREON MEET OR EXCEED NATIONAL MAPPING STANDARDS FOR 1-FOOT ACCURACY TOPOGRAPHIC SURVEYS AND HAVE BEEN COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.

## EXISTING FEATURE SYMBOL LEGEND

- UGE — = EXISTING UNDERGROUND POWER
- [SD] — = STORM DRAIN LINE PER RECORDS\*
- [FM] — = SAN. SEWER FORCEMAIN PER RECORDS\*
- SD — = EXISTING STORM DRAIN LINE
- +123.45 — = POST CONSTRUCTION SPOT ELEVATION ON EXISTING GROUND
- = EXISTING ASPHALT SURFACING
- = EXISTING CONCRETE SURFACING
- = REHABILITATED ASPHALT SURFACING (POST EXCAVATION)
- = REHABILITATED CONCRETE SURFACING (POST EXCAVATION)

\* UTILITIES OF RECORD SHOWN PER DRAWINGS PROVIDED BY DAKOTA CREEK INDUSTRIES (DURING PRE-CONSTRUCTION SURVEY) TITLED "DAKOTA CREEK SHIPYARD YARD UTILITIES PLAN" DATED 11-2-2009. REFER TO PRE-CONSTRUCTION TOPOGRAPHIC SURVEY PREPARED FOR GEO-ENGINEERS DATED 3/4/2022 FOR ADDITIONAL INFORMATION.

JOB#:	2023135	SCALE:	1" = 20'
PROJECT:	DAKOTA CREEK REHAB	LAYOUT:	POST CONSTRUCTION AS-BUILT
CLIENT:	CLEAR CREEK	DATE:	9.25.2023

