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CLEANUP COMPLETION REPORT

Former Basin Oil Property

8661 Dallas Avenue S, Seattle, WA 98118

King County Parcel #788410-0110

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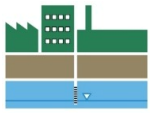
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LIST OF ACRONYMS & ABBREVIATIONS

Acronym	Explanation
BGS	Below ground surface
CFR	Code of Federal Regulations
CLARC	Cleanup Level and Risk Calculation
COPC	Constituent or Contaminant of Potential Concern
COC	Contaminant of Concern
CUL	Cleanup Level
CY	Cubic Yards
DRPH	Diesel Range Petroleum Hydrocarbons
EC	Environmental Covenant
Ecology	Washington State Department of Ecology
MTCA	Model Toxics Control Act
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl's
PID	Photoionization Detector
PROPERTY	Former Basin Oil at 8661 Dallas Ave South
QC	Quality Control
SAP	Sampling and Analysis Plan
SF	Square Feet
SL	Screening Level
TSD	Treatment Storage Disposal
UEP	Urban Environmental Partners llc
USEPA	United States Environmental Protection Agency
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
WAC	Washington Administrative Code



1.0 INTRODUCTION

This Cleanup Completion Report documents the Independent Cleanup Action and confirmation sampling activities associated with the former Basin Oil property, located in the South Park neighborhood of Seattle, Washington (Figure 1). This remedial work was performed in general accordance with Ecology's Model Toxics Control Act (MTCA). A copy will be submitted to Ecology's Northwest Regional office with instructions to file this report with the former Basin Oil property files.

This cleanup report concludes – the Independent Cleanup Action and sampling and analytical results detailed herein demonstrate that Property soil and groundwater quality comply with Ecology's MTCA Method A/C Industrial cleanup levels (CULs), and with one exception (cPAH TEQ) MTCA Method A/B Unrestricted CULs.

2.0 PROPERTY BACKGROUND AND ENVIRONMENTAL CONDITIONS

The following section provides a brief description of the current and historical uses of the Basin Oil property and a presentation of the physical settings of the Property.

2.1. PROPERTY DESCRIPTION AND LOCATION

The Basin Oil property (Property or site) is located at 8661 Dallas Avenue South, in the South Park neighborhood of Seattle, Washington. It is triangular shaped and approximately 16,600 square feet in size. In 2016, the Property was purchased by South Park Royalty LLC. The current City of Seattle zoning is IB-U/45, which is Industrial Buffer use generally limited to light and general manufacturing and some commercial uses subject to some limits.

The Property is currently unimproved with no above or below ground utilities or features present. The site is surrounded by newly installed green stormwater infrastructure and bounded by Dallas Avenue nonmotorized lane to the northeast, 17th Avenue to the west, and Donovan Street nonmotorized lane to the south, as shown on Figure 1.

Additional details regarding the Property historical uses, tenants and ownership are available in Ecology's Property Review (Ecology, 2004) and their Summary of Site Characterization Activities: Basin Oil Property (Ecology, 2010).

2.2. HISTORICAL SITE USES

Beginning in 1987, the Basin Oil owner leased the property from Malarkey Asphalt (aka Terminal 117 or T-117), then purchased the property in August 2000. Basin Oil operated a used oil reprocessing facility on the subject Property from approximately 1990 until 2004. Two other businesses owned by Terry Drexler, the former owner of the Property, also operated at this location – Northwest Antifreeze Service, Inc. collected and stored new and used antifreeze at the site, which was eventually shipped off site to a TSD facility for treatment. Basin Tank and Environmental Services, Inc. was an UST and AST residential heating oil tanks decommissioning contractor who used the Property. The tanks were brought back to the Basin Oil location to be refurbished and reused or cut up for scrap metal. Basin Tank and Environmental Service closed in January 2002.

Ecology coordinated a multi-agency inspection of Basin Oil on March 14, 2007. Ecology sent a letter to Basin Oil on April 17 listing the concerns and requirements of the agencies involved, as well as a comment from EPA. Basin Oil removed all tanks, secondary containment walls, and drums prior to the 2009 investigation activities (fall 2007 through spring 2008). An effort was also made to remove suspected contaminated soil by removing visually stained soil in the south section of the property (Figure 2). Depth of excavation was estimated to range from one to three feet. Confirmation sampling by the owner was never completed, which resulted in a site characterization performed by Ecology (Ecology, 2010).

2.3. SOIL QUALITY AND DISTRIBUTION

Chemical impacts in shallow soil at the site were the result of historic industrial operations, primarily associated with used oil recycling and storage. In particular, most of the historic spills and releases occurred in the southern half of the property, where the former owner removed several feet of contaminated soil (Figure 2).

Data results from Ecology's May 2009 site investigation (Ecology, 2010) provided a significant amount of shallow and deep soil samples and laboratory analytical results. These results are provided in the Ecology 2010 report and are also summarized in Table 1 attached.

In summary, Ecology collected several soil samples from the following depths below ground surface (bgs): 0- to 6-inches; 2.5-feet; 5-feet; 12.5-feet, and finally 15-feet bgs. Except for soil sample BSB-3 at 12.5-feet bgs (contained PCBs at 1.0 mg/kg), only the characterization samples collected from the 0- to 6-inches bgs interval contained slightly elevated concentrations of either TPH or PCBs. Shallow soil samples from 0- to 6-inches bgs with contaminant exceedances of CULS are shown on Figure 2 with red, green and black halos. These data locations were used to develop the soil cleanup remedial design for the Property (Section 3.0 below).

2.4. SHALLOW GROUNDWATER OCCURRENCE AND QUALITY

A shallow groundwater occurrence has been documented in the site's upper fill and sand unit that is saturated in its lower part. Water levels from on- or adjacent-site wells measured the shallow water table between 4 to 8 feet below ground surface. A comprehensive groundwater study prepared for the T-117 Earl Action Area (Sealaska 2012,), which included the Basin Oil area, concluded that groundwater flow direction is generally northeast from the site, (e.g., through T-117) toward the Lower Duwamish Waterway (LDW). Specifically, Basin Oil flow direction is generally from MW-12 toward MW-09 and MW-11 (Figure 2). Several groundwater elevation contour studies during the T-117 cleanup were performed during both high and low tides and their conclusions were the same (Figure 5).

Between 2008 and 2011, fourteen rounds of groundwater monitoring were performed for the POS T-117 Early Action Area (EAA) cleanup project, which included a Recontamination Assessment Area (RAA) study for the former Basin Oil property. As a result, several of the T-117 EAA groundwater wells were located immediately adjacent to and on (MW-01) the Basin Oil site. Including the EAA study, the following shallow monitoring wells establish the site groundwater quality:

- Upgradient of BO: MW-12, MW-13 and MW-15
- Downgradient of BO: MW-9, MW-10 and MW-11
- On site of BO: MW-01, MW-B01 and WM-B02

The primary objective of the Basin Oil RAA groundwater study (Sealaska, 2012) was to determine if groundwater migrating from Basin Oil onto the T-117 Upland EAA contains contaminants at levels that have the potential to recontaminate the T-117 area. The findings concluded that current groundwater conditions upgradient of the T-117 upland property (e.g., Basin Oil and surrounding residential pocket neighborhood) will not be a source of recontamination.

In order to evaluate the current, onsite Basin Oil groundwater quality, two additional wells (MW-B01 and MW-B02) were installed in locations shown on Figure 2 and sampled for four consecutive quarters. These data were then combined with the earlier Port T-117 groundwater study results and evaluated as a whole. Tables 1 and 2 provide a summary of the groundwater monitoring analytical results, and concludes the following:

1. Site COCs PCBs, TPH, and cPAHs are not present in site shallow groundwater above any relevant site SLs and CULs. In particular, PCBs were not detected in on site wells MW-B01, MW-B02 and MW-01 above the MTCA Method A and C CULs of 0.10 and 0.22 ug/L, respectively. Additionally, no exceedance was detected above the LDW PCUL for sediment recontamination (GW-3) of 0.022 ug/L.

2. Shallow groundwater results for total PCBs from onsite wells empirically demonstrate there is no site soil to groundwater transport pathway occurring (e.g., that residual PCB soil impacts are not creating a groundwater impact or contamination problem).
3. Arsenic was measured from MW-B02 at a concentration of 9.2 ug/L, slightly above the MTCA Method A CUL of 5 ug/L. More significantly, upgradient and off-site arsenic concentrations were measured from MW-12 and MW-13 at 17.7 and 9.4 ug/L, approximately 20 feet upgradient of WM-B02. Elevated concentrations of arsenic were not detected at the other two on site wells MW-B01 and MW-01 and on any site downgradient wells. Conclusion: concentrations of dissolved arsenic in groundwater are entering the site on the southwest corner but are not migrating further onto the Property or to the northeast and off the Property. The onsite arsenic concentration measured at MW-B02 is just barely above the revised arsenic background concentration for the Puget Sound basin of 8 ug/L.

2.5. CHEMICALS AND MEDIA OF CONCERN

Site soil is the only confirmed media of concern for the site.

The Contaminants of Concern (COCs) for the site soil, based on previous investigation activities by the former owner and Ecology include

- Total PCBs
- TPH quantified as diesel and heavy oil
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and
- Arsenic

3.0 CLEANUP DESIGN AND OBJECTIVES

3.1. PURPOSE OF THE CLEANUP ACTION

The primary objective of the planned cleanup was to address legacy, impacted site soil and groundwater that represent potentially complete contaminant exposure pathways for the future use and development of the property. The site is currently vacant with no improvements and no planned development. Specific cleanup objectives include:

- Meet both MTCA Method A and B Unrestricted and Method C Industrial Site use standards, however MTCA Method C is appropriate for current and future site uses.
- Screen final confirmation soil and groundwater sample results against relevant Lower Duwamish Waterway (LDW) Preliminary Cleanup Levels (PCULs).
- Perform a cleanup that achieves these objectives and prepare the Property to obtain a No Further Action opinion by Ecology.

3.2. CONTAMINANTS OF CONCERN AND CLEANUP LEVELS

Site chemicals or contaminants of concern (COCs) are based on historic site uses and prior investigations, and include PCBs, TPH quantified as diesel and heavy oils, cPAHs, and arsenic.

Applicable soil and groundwater cleanup levels (CULs) for the property are based on Ecology's Model Toxics Control Act (MTCA) Method A and B Unrestricted and Method C Industrial Site use standards. Each numerical CUL for both soil and groundwater are provided at the bottom of Tables 1 and 2/3 for soil and groundwater analytical summaries.

3.3. POINTS OF COMPLIANCE

The point of compliance is the location where the enforcement limits will be measured and cannot be exceeded to evaluate and determine compliance or attainment of the cleanup objectives.

The standard point of compliance for soil is across the Site, from ground surface to 15 feet bgs for direct contact, or to 6 feet bgs with institutional controls.

The standard point of compliance for groundwater at the Site is from the uppermost saturated zone extending vertically to the lowest most depth which could potentially be affected by the release at the site (shallow groundwater occurrence). Because there were only shallow soil impacts at the Property, no conditional points of compliance were used for this site.

4.0 CLEANUP CONSTRUCTION IMPLEMENTATION

Remedial excavation and cleanup of the property occurred in phases between August 16th and 26th, 2022. All work was performed in general accordance with the City Subject-to-Field Demolition Permit (Record Number: 004999-22PA) and design plans. Additional work beyond the initial design plans included the removal of an abandoned oil/water separator. Appendix A provides a photo log of the various phases of the work, including site preparation, soil excavation and performance/confirmation sampling and site restoration.

4.1. PERMITS AND REGISTRATIONS REQUIRED

The following key permits and approvals were obtained in order to implement the site cleanup.

- City of Seattle Subject-to-Field Demolition Permit. UEP llc prepared a city-standard demolition and grading plan set that included a topographic survey, TESC plan and details, and a grading and backfill plan (Appendix B). The plan set was submitted to the city for review and approval on July 29, 2022.
- Street Use Permit. A street use permit to close the east side of 17th Avenue South was obtained on August 22, 2022. Street closure was granted between August 27 and September 10, 2022.

4.2. HEALTH AND SAFETY

A site-specific Health and Safety Plan (HASP) for this cleanup action was prepared by UEP llc that meets the minimum requirements federal (Title 29 of the Code of Federal Regulations) and state regulations (WAC 296). The HASP identifies the known site health risk hazards and the monitoring protocols to mitigate these hazards.

4.3. OVERVIEW OF THE CLEANUP CONSTRUCTION ELEMENTS

The overall elements of Cleanup Construction from start to finish included property clearing, contaminated soil excavation, and backfilling with imported Type 17 backfill material. Details of the cleanup steps is provided below.

Site Monitoring Wells Decommissioning. To evaluate Basin Oil property groundwater occurrence and quality, UEP installed two 2-inch diameter monitoring wells on 1/22/2021 at the locations shown on Figures 1 and 2. Following four quarters of monitoring, the two wells were decommissioned prior to cleanup on 8/17/2022 in accordance with state decommissioning requirements (e.g., filled length of well screen using first coated bentonite chips followed by standard chips). A Notification Of Intent (AE74313) and the associated fees were submitted to

Ecology on 8/13/2022. A copy of the NOI and original driller well logs are provided in Appendix C.

Property Clearing, Concrete Demolition and Material Recycling. Approximately half of the property was overgrown with shrubs and trees, primarily nonnative Himalayan blackberry, butterfly bush and Black alder. Existing vegetation across the property was either cut down and graded/pushed into a single location and shaken until clinging soil was released. Approximately 60 tons of vegetation was disposed as green compostable material at Waste Management in Seattle, Washington. Two concrete slabs, approximately 6- to 8-inches thick were broken into smaller parts and hauled off site for recycling. Approximately 360 tons of broken concrete was recycled at Rainier Wood Recyclers in Covington, Washington. Approximately 4 tons of scrap metal, mainly recovered rebar from the concrete slabs, was recycled at Seattle Iron & Metal, in Seattle, Washington. Trip tickets and disposal receipts are provided in Appendix D.

Abandoned Concrete Oil/Water Separator Removal. At the end of soil excavation efforts, a legacy oil/water separator vault made of concrete was broken down and disposed-of offsite. The vault was partially filled with water and a black, oily-residue and sediments, which were sampled and chemically profiled for disposal (Appendix E). The lab results indicated the material contained some heavy metals and petroleum, and was eventually hauled to Northern Environmental LLC in Tacoma, Washington for disposal. The empty vault was broken into smaller pieces and also hauled to Northern Environmental for disposal.

Contaminated Soil Excavation, Stockpiling, and Off-Site Disposal. The soil cleanup plan required three areas of contaminated soil excavation (Zones 1, 2 and 3, Figure 2) based on earlier investigation data that exceeded soil cleanup levels (see Section 2.4 above). Screening, identification and ultimately removal of impacted soil at the Property was aided in the using field screening techniques, such as visual indicators (color and texture), water test, and a Photo Ionization Detector (PID).

Each excavation area was performed separately, moving from the north of the site to the south and accomplished using both performance (e.g., generally containing a COC above and SL or CUL; overexcavated) and soil confirmation testing (e.g., containing no COCs above the SL or CULs), a final soil sample that defines the final extent of excavation. Each area of excavation is detailed below.

Zone 1 Excavation – this area of cleanup excavation was defined by investigation samples BSB-6, BSB-7, BSB-8 and BSB-10 (Figure 2), which all exceeded site SLs or CULs. These investigation samples contained either PCBs or TPH concentrations above the site cleanup levels (CULs) of 0.5 or 2,000 mg/kg, respectively. In all cases, investigation samples exceeding CULs were collected between 0 – 6 inches below ground surface (bgs).

The final limits of Zone 1 excavation are shown on Figures 3 and 4. The approximately 3,500 sf area was initially excavated to 8-inches bgs to excavated the target investigation samples. At this

stage, four performance samples were collected equally spaced at the limit of excavation and analyzed for PCBs, TPH and in some cases cPAHs. Sample locations were also aided with field screening by the UEP field geologist. Three of the four performance samples exceeded a COC CUL, which resulted in an additional excavation of 4 inches. The final Zone 1 excavation compliance is defined by Confirmation Soil Samples S-6-2, S-7, S-8-2 and S-9-2 (Figures 3 and 4, Table 1). A total of approximately 70 cubic yards (CY) of contaminated soil was removed from Zone 1.

Zone 2 Excavation – this planned area of cleanup excavation, as shown on Figure 2, was defined by and required removal of soil represented by investigation samples BSB-1, BSB-4 and BSB-5. These investigation samples contained only TPH concentrations above the site CUL of 2,000 mg/kg, respectively. In all cases, investigation samples exceeding CULs were collected between 0 – 6 inches bgs.

The final limits of Zone 2 excavation are shown on Figures 3 and 4. The approximately 4,500 sf area was excavated to 8-inches bgs, and three samples were collected and analyzed for PCBs, TPH and in some cases cPAHs. All three samples contained concentrations of the site COCs below their respective CUL. Therefore, the final Zone 2 excavation confirmation and compliance is defined by Confirmation Soil Samples S-1, S-2 and S-4 (Figures 3 and 4, Table 1). A total of approximately 100 CY of contaminated soil was removed from Zone 2.

Zone 3 Excavation – this area of cleanup excavation, as shown on Figures 2 and 3, was vertically defined by investigation sample BSB-13 collected at 12.5-feet bgs. Although BSB-3 samples at 6-inches, 10-feet and 15-feet bgs all contained PCB concentrations below the laboratory detection limit of 0.032 mg/kg, the 12.5-feet bgs sample contained concentrations of PCB at 1.0 mg/kg, exceeding the MTCA Method B Unrestricted direct contact value of 0.5 mg/kg and equaling the Method A Unrestricted value of 1.0 mg/kg, but considerably below the Method A Industrial value of 10 mg/kg. Given the sample concentration is the same as the Method A Unrestricted CUL, it was decided to take a conservative approach and remove the deep, PCB-containing soil.

To expand the distribution and spacing of Zone 3 soil performance sampling, another sample S-3-1 was collected in the southeastern corner of the property, which resulted in overexcavation and resampling two additional times, until a final soil confirmation sample S-3-4 was collected at 16-inches bgs.

The final limits of Zone 3 excavation are shown on Figures 3 and 4. The approximately 1,300 sf area was dug to two final depths: 13-feet bgs around BSB-13 and 16-inches bgs surrounding final confirmation sample S-3-4, as shown on Figures 3 and 4. The final Zone 3 excavation is defined by Confirmation Soil Samples BSB-13 and S-3-4 (Table 1). A total of approximately 65 CY of contaminated soil was removed from Zone 3.

Off-Site Disposal of Contaminated Soil. Excavated contaminated soil generated from the cleanup project was chemically profiled using past investigation data (Ecology, 2010), soil data results from the installation of monitoring wells MW-B01 and MW-B02 (2021) and performance sampling during cleanup. Waste Management reviewed the soil profile material and issued a waste profile acceptance letter on August 9, 2022 (Appendix D).

A total of approximately 265 tons of petroleum contaminated soil (PCS) was hauled to Waste Management's Duwamish Reload Facility on 8th Avenue S and ultimately transported to their Subtitle D landfill in Arlington, Oregon. Weight tickets for all transported and landfilled contaminated soil is provided as Appendix D

4.4. SITE RESTORATION

Following the confirmed soil excavation and off-site disposal of contaminated soil, the site was restored to original grade by backfilling the entire site with imported Type 17 backfill material. Approximately 290 tons of backfill was placed on the site and graded to create a flat surface across the site, approximately 6-inches below the perimeter elevation of the City stormwater features and roadway. The backfill material, slightly compacted by rolling across the site with the excavator, was also graded to allow a slight slope toward the inside of the site.

Approximately 30 CY of imported compost mixture from Seattle Dirt was placed on the property, and graded to form a shallow cover of organic material. The site was then seeded with a northwest grass mix. Finally, six Ecology-blocks were placed along the two, curb-high entrance locations for the site, along 17 Ave W. The blocks will prevent unauthorized access and dumping of material on the property.

5.0 SOIL EXCAVATION CONFIRMATION SAMPLING AND ANALYSIS

Final confirmation soil samples were collected and analyzed following cleanup excavation and overexcavation efforts across most of the 16,600 SF property. These sample results were used to terminate soil excavation removal efforts and determine the site is clean (soil quality is at or below site SLs and CULs). A summary of investigation, performance and confirmation soil sampling and laboratory analysis results is provided below.

Site Investigation Sampling and Analysis. Previous investigation efforts by Ecology and UEP resulted in the onsite completion and sample collection of 10 soil borings; three monitoring wells; and laboratory analysis of 49 soil samples. Many of the soil samples were collected to represent the 0- to 6-inch bgs range of site soil. Several others were collected at 5-, 10- and 15-foot bgs. Except for sample BSB-3 at 12.5-foot bgs, all other soil samples that contained concentrations of either PCBs, TPH, or cPAHs above the site screening (SLs) or cleanup levels (CULs) were from the 0- to 6-inches bgs range. A total of 8 out of 49 investigation soil samples required excavation of surrounding soil to remove contaminated soil and replace sample results that were above site SLs or CULs (see Table 1, yellow highlights). These sample data and locations were used to design the contaminated soil excavation plans, as described in Sections 3 and 4.3.

A copy of Ecology's investigation report is provided as Appendix F, including the laboratory analytical reports. Laboratory analytical reports for soil samples from two UEP monitoring wells is included in Appendix G.

Performance Sampling and Analysis. During contaminated soil excavation and sampling, soil performance samples were used to determine the soil quality at the end of an excavation effort. Should the performance sample COC concentration exceed a site SL or CUL, additional excavation was completed creating an area of roughly 40-feet by 40-feet around the sample location, and the newly exposed soil bottom surface was resampled. Once a sample contained concentrations of COCs below site SLs and CULs, soil excavation stopped, and the sample is considered a Compliance Soil Sample.

A total of 6 performance (e.g., samples that exceed a site SL or CUL) soil samples were collected and analyzed during cleanup. Performance samples contained either PCBs or cPAH concentrations that exceed an SL or CUL (Table 1). Laboratory analytical reports for performance soil samples is included in Appendix G.

Confirmation Sampling and Analysis. Confirmation soil samples represented the final, bottom soil sample from each zone of the site, representing approximately 500 to 1,000 SF (e.g., an average excavation cell of 30 feet by 30 feet) of an excavated area. Each sample was a discrete sample that was located generally in the center of an excavated area and aided by field screening to identify areas of potential contamination. Each discrete sample was assembled by collecting and blending two to three spoons of soil before filling a laboratory-provided sampling jar.

A total of 10 samples collected during this soil cleanup project along with 4 samples from prior Ecology investigation efforts combine to create 14 final Confirmation Soil Samples. The sample distribution and final location relative to the cleanup efforts are shown on Figures 3 and 4. Analytical results of confirmation samples are presented in Table 1 and shown on Figure 3. A summary of the soil analytical results for the Confirmation Soil Samples includes:

- PCBs in soil results: only 1 of 14 samples (essentially 7% or less than 10% of the total samples – see ‘three parts’ rule, Section 1.1 Ecology, 1995) exceeded the site Method B Unrestricted (direct contact) SL of 0.50 mg/kg and none of the 14 samples exceed the site Method A Unrestricted CUL of 1.0 mg/kg. No samples exceeded Ecology’s MTCA C Industrial CUL of 10 mg/kg. The one sample (S-9-2) contained a total PCB concentration 0.59 mg/kg. These data show the Property is in statistical compliance for the PCB CUL.
- TPH in soil results: 11 of 14 Confirmation Soil Samples were analyzed for TPH quantified as Heavy Oil and Diesel, and only one sample contained concentrations of TPH above the laboratory detection limit. No samples contained concentrations of TPH above site SLs or CULs. These data indicate the Property is in full compliance with TPH CULs.
- cPAHs in soil results: 8 of 14 Confirmation Soil Samples were analyzed for cPAHs, and a total cPAH TEQ was also calculated. Of these 8 samples, 5 samples contained total cPAH concentrations below the laboratory detection limits; 3 samples contained concentrations of cPAHs and a TEQ above the MTCA Method A Unrestricted SL of 0.1 and 0.19 mg/kg. However, no samples contained cPAH concentrations and a TEQ above the Method C Industrial CUL of 2.0 mg/kg. These data indicate the Property is in compliance with the Method C Industrial CUL.
- Arsenic in soil results: 8 of 14 Confirmation Soil Samples were analyzed for arsenic in soil. Most soil samples contained a low detection of arsenic, however none of the 8 confirmation samples contained arsenic in a concentration greater than MTCA Method A Unrestricted or MTCA Method C Industrial CUL of 20 mg/kg. These data show that arsenic in soil is in full compliance with the Method A Unrestricted CUL.

6.0 FINDINGS AND CONCLUSIONS OF THE INDEPENDENT CLEANUP

Review and evaluation of the Independent Cleanup Action, and the sampling and analytical results detailed herein, demonstrate that Property soil and groundwater quality comply with Ecology's MTCA Method A/C Industrial cleanup levels (CULs), and in all but one case in compliance with MTCA Method A/B Unrestricted CULs.

More specifically, this independent cleanup site soil and groundwater quality data:

- Complies with MTCA Method A/C Industrial cleanup levels (CULs) for all site contaminants of concern (COCs),
- Complies with MTCA Method A/B Unrestricted CULs for PCBs, TPH and metals. All but one sample for total PCBs (S-9-2 at 0.59 mg/kg) are below the PCB unrestricted CUL (0.5 mg/kg), which represents only 7% of the total number of samples.
- Arsenic in site groundwater (MW-BO2 at 9.2 ug/L) is the only COC that exceeds groundwater SLs (MTCA Method A Unrestricted arsenic CUL of 5 ug/L), however similar and elevated concentrations of Arsenic in groundwater were detected off site and just upgradient (less than 30-feet away) of the property, at 17.7 and 9.4 ug/L from MW-12 and MW-13, respectively.
- With the exception of local regional arsenic values in groundwater, the Property is in compliance with applicable CULs for soil and groundwater for all COCs.

7.0 LIMITATIONS

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

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Urban Environmental Partners llc is not responsible for the impacts of any changes in environmental conditions, standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others or the use of segregated portions of this report.

8.0 REFERENCES

Ecology, 1995. Washington State Department of Ecology, Guidance on Sampling and Data Analysis Methods, January 1995.

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Ecology, 2010. Washington State Department of Ecology, Lower Duwamish Water Early Action Area 5 – Summary of Site Characterization Activities: Basin Oil Property. August 2010.

Sealaska, 2012. Interim Groundwater Monitoring Completion Report, Terminal 117 Early Action Area, September 17, 2012

TABLES

INVESTIGATION SOIL SAMPLES

Parameter	MTCA Method A/B (Unrestricted)	MTCA Method A/C (Industrial)	SS-1 0-2 inch 5/12/2009	SS-1 2-6 inch 5/12/2009	SS-2 0-2 inch 5/12/2009	SS-2 2-6 inch 5/12/2009	BSB-1 0-6 inch 5/12/2009	BSB-1 15 feet 5/12/2009	BSB-2 0-6 inch 5/12/2009	BSB-2 12.5 feet 5/12/2009	BSB-3 0-6 inch 5/12/2009	BSB-3 10 feet 5/12/2009	BSB-3 12.5 feet 5/12/2009	BSB-3 15 feet 5/12/2009
Metals														
Arsenic	20	20	--	--	--	--	3.1	3	3.2	2.2	7.2	--	3.1	3.9
Barium	--	700,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	--	7000	--	--	--	--	0.1	0.2	0.1	0.2	0.3	--	0.1	0.2
Cadmium	2.0	3500	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.3	--	0.2 U	0.2 U
Chromium	190	190	--	--	--	--	19.9	29.2	25.4	33.5	18	--	35.9	30.4
Copper	--	390	--	--	--	--	23.7	19.5	13.9	19.5	21.9	--	12.6	11.9
Lead	250	250	--	--	--	--	8	2	2 U	2.0	21	--	2 U	2 U
Mercury	2.0	0.41	--	--	--	--	0.05	0.03	0.04	0.03	0.09	--	0.03 U	0.03
Nickel	--	1,600	--	--	--	--	11	35	29	41	16	--	27	27
Zinc	--	410	--	--	--	--	48 J	45 J	39 J	40 J	65 J	--	32 J	30 J
PCBs														
Total PCBs	1.0 / 0.5	10	0.032 U	0.032 U	0.032 U	0.032 U	0.096	0.03 U	0.033 U	0.032 U	0.032 U	0.031 U	1.0	0.032 U
Petroleum Hydrocarbons														
Diesel Range Organics	2,000	2,000	--	--	--	--	58	5.2 U	5.5 U	5.3 U	6.2 U	--	6 U	6 U
Heavy Oil	2,000	2,000	--	--	--	--	240	10 U	11 U	11 U	35	--	12 U	12 U
Gasoline Range Organics	30	30	--	--	--	--	6.7 U	5.6 U	6 U	5.4 U	7.8 U	--	5.9 U	6.7 U
cPAHs														
Naphthalene	5.0	5	--	--	--	--	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
Anthracene	--	1100000	--	--	--	--	0.33	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
1-Methylnaphthalene	--	4500	--	--	--	--	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
2-Methylnaphthalene	--	14000	--	--	--	--	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
Fluoranthene	--	140000	--	--	--	--	2.4	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
Pyrene	--	110000	--	--	--	--	1.6	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Benzo(a)anthracene</i>	--	2	--	--	--	--	0.93	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Chrysene</i>	--	18000	--	--	--	--	1.0	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Benzo(b)fluoranthene</i>	--	180	--	--	--	--	0.89	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Benzo(k)fluoranthene</i>	--	1800	--	--	--	--	0.78	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Benzo(a)pyrene</i>	0.1	180	--	--	--	--	0.98	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Indeno(1,2,3-cd)pyrene</i>	--	180	--	--	--	--	0.5	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
<i>Dibenz(a,h)anthracene</i>	--	18	--	--	--	--	0.14	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U
cPAH Total TEQ	0.1 / 0.19	2					1.31		0.063 U					


 Cell color indicates the value exceeds one of two screening or cleanup levels

 Cell color indicates the sample represents a final Confirmation Sample

 Cell color indicates the samples was removed during soil cleanup excavation

INVESTIGATION SOIL SAMPLES

Parameter	MTCA Method A/B (Unrestricted)	MTCA Method A/C (Industrial)	BSB-4 0-6 inch 5/12/2009	BSB-4 12.5 feet 5/12/2009	BSB-5 0-6 inch 5/12/2009	BSB-5 5 feet 5/12/2009	BSB-5 12.5 feet 5/12/2009	BSB-5 15 feet 5/12/2009	BSB-6 0-6 inch 5/13/2009	BSB-6 2.5 feet 5/13/2009	BSB-6 15 feet 5/13/2009	BSB-7 0-6 inch 5/13/2009	BSB-7 2.5 feet 5/13/2009	BSB-7 15 feet 5/13/2009
Metals														
Arsenic	20	20	4.6	2.4	6.5	0.7	NA	2.9	8.3 J	NA	1.4 J	7.5 J	NA	1.0 J
Barium	--	700,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	--	7000	0.2	0.2	0.2	0.1 U	NA	0.2	0.1 U	NA	0.1 U	0.1	NA	0.1 U
Cadmium	2.0	3500	0.2 U	0.2 U	0.4	0.2 U	NA	0.2 U	0.4	NA	0.2 U	0.6	NA	0.2 U
Chromium	190	190	18.3	35	31.5	13.9	NA	19.7	45.8 J	NA	11.3 J	23.9 J	NA	1.9 J
Copper	--	390	26.3	16.9	29.1	12.1	NA	13.5	48.3 J	NA	12.2 J	52.3 J	NA	2.1 J
Lead	250	250	6.0	2 U	35	2 U	NA	2 U	21	NA	2 U	18	NA	2 U
Mercury	2.0	0.41	0.06	0.03	0.10	0.02 U	NA	0.02	0.07	NA	0.02 U	0.03	NA	0.02 U
Nickel	--	1,600	12	41	15	6.0	NA	22	29 J	NA	8 J	40 J	NA	3.0 J
Zinc	--	410	40 J	41 J	80 J	25 J	NA	32 J	87	NA	41	195	NA	6.0
PCBs														
Total PCBs	1.0 / 0.5	10	0.15	0.031 U	0.12	0.033 U	0.031 U	0.032 U	0.56	NA	0.032 U	0.99	NA	0.031 U
Petroleum Hydrocarbons														
Diesel Range Organics	2,000	2,000	56	5.4 U	36	5 U	NA	5.4 U	900	6.2 U	5.6 U	430	7.8	5.3 U
Heavy Oil	2,000	2,000	64	11 U	150	10 U	NA	11 U	840	36	11 U	470	52	11 U
Gasoline Range Organics	30	30	7.1 U	5.3 U	6.7 U	5.7 U	NA	7.1 U	250	9.7 J	8.4 U	1,100	7.8 UJ	7.2 U
cPAHs														
Naphthalene	5.0	5	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.6	NA	0.06 U
Anthracene	--	1100000	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
1-Methylnaphthalene	--	4500	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.20	NA	0.063 U	1.0	NA	0.06 U
2-Methylnaphthalene	--	14000	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.22	NA	0.063 U	1.3	NA	0.06 U
Fluoranthene	--	140000	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Pyrene	--	110000	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Benzo(a)anthracene	--	2	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Chrysene	--	18000	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Benzo(b)fluoranthene	--	180	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Benzo(k)fluoranthene	--	1800	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Benzo(a)pyrene	0.1	180	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Indeno(1,2,3-cd)pyrene	--	180	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
Dibenz(a,h)anthracene	--	18	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	NA	0.06 U
cPAH Total TEQ	0.1 / 0.19	2												

 Cell color indicates the value exceeds one of two screening or cleanup levels

 Cell color indicates the sample represents a final Confirmation Sample


 Cell color indicates the samples was removed during soil cleanup excavation


INVESTIGATION SOIL SAMPLES


Parameter	MTCA Method A/B (Unrestricted)	MTCA Method A/C (Industrial)	BSB-8 0-6 inch 5/13/2009	BSB-8 2.5 feet 5/13/2009	BSB-8 15 feet 5/13/2009	BSB-9 0-6 inch 5/13/2009	BSB-9 15 feet 5/13/2009	BSB-10 0-6 inch 5/13/2009	BSB-10 2.5 feet 5/13/2009	BSB-10 15 feet 5/13/2009	MW-12 (off site) 0-6 inch 5/14/2009	MW-12 (off site) 2.5 feet 5/14/2009	MW-13 (off site) 0-6 inch 5/14/2009	MW-13 (off site) 2.5 feet 5/14/2009
Metals														
Arsenic	20	20	2.9 J	2.3 J	0.9 J	3.8 J	2.2 J	2.3 J	16 J	2.7 J	18 J	4.2 J	4.3 J	4.1 J
Barium	--	700,000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	--	7000	0.1	0.1 U	0.1	0.2	0.2	0.3 U	0.1 U	0.2	0.3	0.3	0.2	0.2
Cadmium	2.0	3500	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.7	0.3 U	0.2 U	0.2 U
Chromium	190	190	20.8 J	7.9 J	11.2 J	15.1 J	33.9 J	60 J	11.2 J	21.7 J	22.5	18.7	54.1	49.1
Copper	--	390	40.3 J	9.5 J	12.8 J	12.3 J	17.4 J	92.4 J	13.6 J	14.8 J	36.9	24.8	29.3	24.3
Lead	250	250	4.0	2.0	2 U	3.0	2.0	14	3.0	2 U	83 J	5.0 J	6.0 J	3.0 J
Mercury	2.0	0.41	0.02 U	0.03 U	0.02 U	0.03	0.03	0.03	0.03	0.03 U	0.14	0.04	0.06	0.05
Nickel	--	1,600	20 J	9.0 J	9.0 J	9.0 J	38 J	42 J	7.0 J	29 J	18	12	54	49
Zinc	--	410	62	27	39	43	51	88	40	36	133	42	50	50
PCBs														
Total PCBs	1.0 / 0.5	10	0.11	0.061	0.031 U	0.064	0.033 U	0.22	0.038	0.032 U	0.27	0.032 U	0.15	0.031 U
Petroleum Hydrocarbons														
Diesel Range Organics	2,000	2,000	740	5.2 U	5 U	8.7	5.3 U	1800	5.3 U	5.3 U	520	6.5 U	41	6.3 U
Heavy Oil	2,000	2,000	1300	10 U	10 U	40	11 U	5200	18	11 U	350	13 U	77	13 U
Gasoline Range Organics	30	30	6 U	7.6 U	6.2 U	8.2 U	4.7 U	660	8.6 U	6.8 U	6.2 U	7.8 U	6.8 U	7 U
cPAHs														
Naphthalene	5.0	5	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.94	0.066 U	0.064 U	3.7	0.062 U	0.062 U	0.062 U
Anthracene	--	1100000	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	780	0.064	0.062 U	0.062 U
1-Methylnaphthalene	--	4500	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	1.6	0.066 U	0.064 U	4.9	0.062 U	0.062 U	0.062 U
2-Methylnaphthalene	--	14000	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	2.7	0.066 U	0.064 U	4.8	0.062 U	0.062 U	0.062 U
Fluoranthene	--	140000	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	600	0.76	0.062 U	0.062 U
Pyrene	--	110000	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.23	0.066 U	0.064 U	560	0.5	0.062 U	0.062 U
Benzo(a)anthracene	--	2	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	240	0.25	0.062 U	0.062 U
Chrysene	--	18000	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.24	0.066 U	0.064 U	250	0.27	0.062 U	0.062 U
Benzo(b)fluoranthene	--	180	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	230	0.32	0.062 U	0.062 U
Benzo(k)fluoranthene	--	1800	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	140	0.22	0.062 U	0.062 U
Benzo(a)pyrene	0.1	180	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	240	0.28	0.062 U	0.062 U
Indeno(1,2,3-cd)pyrene	--	180	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	66	0.089	0.062 U	0.062 U
Dibenz(a,h)anthracene	--	18	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	23	0.062 U	0.062 U	0.062 U
cPAH Total TEQ	0.1 / 0.19	2				0.064 U								

- Cell color indicates the value exceeds one of two screening or cleanup levels
- Cell color indicates the sample represents a final Confirmation Sample
- Cell color indicates the samples was removed during soil cleanup excavation

Parameter	INVESTIGATION SOIL SAMPLES						SOIL CLEANUP PERFORMANCE AND CONFIRMATION SAMPLES							
	MTCA Method A/B (Unrestricted)	MTCA Method A/C (Industrial)	MW-BO1 11 feet 1/22/2021	MW-BO1 13 feet 1/22/2021	MW-BO2 10 feet 1/22/2021	MW-BO2 11 feet 1/22/2021	S-1 8 inch 8/22/2022	S-2 8 inch 8/29/2022	S-3-1 8 inch 8/22/2022	S-3-2 8 inch 8/29/2022	S-3-3 12 inch 9/22/2022	S-3-4 16 inch 9/22/2022	S-4-1 8 inch 8/22/2022	S-5 8 inch 8/22/2022
Metals														
Arsenic	20	20	1.13	1.35	1.88	1.13	4.6	--	23.4	--	--	4.08	--	9.56
Barium	--	700,000	13.1	26.3	48.8	13.1	--	--	--	--	--	--	--	--
Beryllium	--	7000	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	2.0	3500	1 U	1 U	1 U	1 U	<1	--	<1	--	--	<1	--	<1
Chromium	190	190	9.65	8.61	19.0	9.65	15.1	--	157	--	--	9.93	--	20.3
Copper	--	390	--	--	--	--	--	--	--	--	--	--	--	--
Lead	250	250	1.06	1.55	1.77	1.06	32.8	--	56	--	--	4.24	--	81.1
Mercury	2.0	0.41	1 U	1 U	1 U	1 U	<1	--	<1	--	--	<1	--	<1
Nickel	--	1,600	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--
Zinc	--	410	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--
PCBs														
Total PCBs	1.0 / 0.5	10	0.02 U	0.02 U	0.02 U	0.02 U	0.07	0.021	3.5	2.7	20	1.0	0.41	0.04
Petroleum Hydrocarbons														
Diesel Range Organics	2,000	2,000	50 U	50 U	50 U	50 U	<50	<50	<50	--	<50	<50	<50	<50
Heavy Oil	2,000	2,000	250 U	250 U	250 U	250 U	<250	<250	<250	--	<250	<250	<250	<250
Gasoline Range Organics	30	30	5 U	5 U	5 U	5 U	<5	--	<5	--	--	<5	--	<5
cPAHs														
Naphthalene	5.0	5	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Anthracene	--	1100000	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
1-Methylnaphthalene	--	4500	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
2-Methylnaphthalene	--	14000	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Fluoranthene	--	140000	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Pyrene	--	110000	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Benzo(a)anthracene	--	2	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Chrysene	--	18000	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Benzo(b)fluoranthene	--	180	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Benzo(k)fluoranthene	--	1800	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Benzo(a)pyrene	0.1	180	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Indeno(1,2,3-cd)pyrene	--	180	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
Dibenz(a,h)anthracene	--	18	--	--	--	--	--	<0.01	--	--	<0.01	<0.01	--	--
cPAH Total TEQ	0.1 / 0.19	2						<0.01			<0.01	<0.01		


 Cell color indicates the value exceeds one of two screening or cleanup levels

 Cell color indicates the sample represents a final Confirmation Sample

 Cell color indicates the samples was removed during soil cleanup excavation

SOIL CLEANUP PERFORMANCE AND CONFIRMATION SAMPLES

Parameter	MTCA Method A/B (Unrestricted)	MTCA Method A/C (Industrial)	S-6-1 8 inch 8/29/2022	S-6-2 12 inch 9/22/2022	S-7 8 inch 8/29/2022	S-8-1 8 inch 8/29/2022	S-8-2 12 inch 9/22/2022	S-9-1 8 inch 8/29/2022	S-9-2 12 inch 9/22/2022	BSB-13 13 feet 8/29/2022
Metals										
Arsenic	20	20		5.21	3.3	--	--	--	12.8	--
Barium	--	700,000		--	--	--	--	--	--	--
Beryllium	--	7000		--	--	--	--	--	--	--
Cadmium	2.0	3500		<1	<1	--	--	--	2.69	--
Chromium	190	190		8.93	10.9	--	--	--	10.5	--
Copper	--	390		--	--	--	--	--	--	--
Lead	250	250		35.9	8.77	--	--	--	21.3	--
Mercury	2.0	0.41		<1	<1	--	--	--	<1	--
Nickel	--	1,600		--	--	--	--	--	--	--
Zinc	--	410		--	--	--	--	--	--	--
PCBs										
Total PCBs	1.0 / 0.5	10	0.17	0.24	0.17	1.6	0.34	0.32	0.59	0.027
Petroleum Hydrocarbons										
Diesel Range Organics	2,000	2,000	<50	<50	<50	160	<50	<50	77	--
Heavy Oil	2,000	2,000	<250	<250	<250	1600	<250	380	710	--
Gasoline Range Organics	30	30		--	<5	--	--	--	<5	--
cPAHs										
Naphthalene	5.0	5	<0.05	<0.05	<0.05	<0.2	0.036	<0.05	<0.05	--
Anthracene	--	1100000	0.013	<0.05	<0.05	<0.2	0.2	0.31	0.18	--
1-Methylnaphthalene	--	4500	<0.05	<0.05	<0.05	<0.2	0.028	<0.05	<0.05	--
2-Methylnaphthalene	--	14000	<0.05	<0.05	<0.05	<0.2	0.026	<0.05	<0.05	--
Fluoranthene	--	140000	0.15	0.41	<0.05	<0.2	1.1	1.8	1.1	--
Pyrene	--	110000	0.14	0.38	<0.05	<0.2	1.3	2.2	1.3	--
Benzo(a)anthracene	--	2	0.067	0.17	<0.05	<0.2	0.5	0.82	0.51	--
Chrysene	--	18000	0.071	0.18	<0.05	<0.2	0.5	0.83	0.54	--
Benzo(b)fluoranthene	--	180	0.092	0.24	<0.05	<0.2	0.55	0.96	0.7	--
Benzo(k)fluoranthene	--	1800	0.035	0.076	<0.05	<0.2	0.21	0.3	0.24	--
Benzo(a)pyrene	0.1	180	0.089	0.2	<0.05	<0.2	0.58	0.94	0.62	--
Indeno(1,2,3-cd)pyrene	--	180	0.058	0.12	<0.05	<0.2	0.21	0.48	0.21	--
Dibenz(a,h)anthracene	--	18	0.011	<0.05	<0.05	<0.2	0.04	0.09	<0.05	--
cPAH Total TEQ	0.1 / 0.19	2	0.12	0.27	<0.05		0.74	1.21	0.80	

 Cell color indicates the value exceeds one of two screening or cleanup levels

 Cell color indicates the sample represents a final Confirmation Sample

 Cell color indicates the samples was removed during soil cleanup excavation



Table 2
Groundwater Analytical Results
Former Basin Oil Property, Seattle, WA

Well ID	Location Relative to Site	Installed By	Date Sampled	Analytical Results - Micrograms per Liter (µg/L) ¹			
				Total PCBs (Aroclors)	TPH-Dx	cPAHs TEQ	Arsenic
MW-B01	On Site	UEP	1/17/2022	<0.01	<50	--	<1.0
MW-B02	On Site	UEP	1/17/2022	<0.01	<50	--	9.2
MW-01	On Site	Ecology	6/28/2012	0.003	<250	<0.02	3.0
MW-12	Upgradient	Ecology	6/28/2012	<0.005	<110	<0.03	17.7
MW-13	Upgradient	Ecology	6/28/2012	<0.005	15	<0.016	9.4
MW-15	Cross gradient	EPA/T117	6/28/2012	<0.05	22	<0.016	3.0
MW-09	Downgradient	EPA/T117	3/30/2009	<0.01	<250	--	<1.0
MW-10	Downgradient	EPA/T117	3/31/2009	<0.01	<250	--	<1.0
MW-11	Downgradient	EPA/T117	3/31/2009	<0.005	<250	--	<1.0
T-117 EAA Removal Action Level (RvAL)				0.01	500	0.15	5
LDW Preliminary Cleanup Levels (PCULs) Protection of LDW Sediments (GW-3)				0.02	NA	0.0049	220
MTCA Method A CULs Unrestricted				0.10	500	0.1	5
MTCA Method C CULs Industrial				0.22	NA	0.2	11

Notes:

(1) - Either highest concentration reported or most recent result if the value continues for more than two sampling events.

Red denotes concentration exceeding MTCA cleanup level or screening level.

< = Not Detected at a concentration exceeding the specified laboratory reporting limit (RL).

RvAL - Removal Action Level established for EPA's T-117 Early Action Area cleanup project (2016).

Natural Background Arsenic concentration for the Puget Sound Basin = 8 ug/L (Publication No. 14-09-044, Department of Ecology, January 2022).

-- = not analyzed
NA = not applicable
MTCA = Model Toxics Control Act
UEP = Urban Environmental Partners
PCULs - Preliminary Cleanup Levels for the LDW, Ecology, February 2023



Table 3
Four Quarters of Groundwater Monitoring
Laboratory Analytical Results
Former Basin Oil Property, South Park, WA

Boring/Well ID	Sampled By	Date Sampled	Analytical Results - Micrograms per Liter (µg/L)											
			Organic COCs				Metals							
			PCBs	DRPH ²	ORPH ²	VOCs	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
MW-BO1	UEP - R1	2/3/2021	<0.1	<50	<250	ND*	<1	5.6	<1	<1	<1	<1	<1	<1
	UEP - R2	7/1/2021	<0.1	<50	<250	ND*	<1	7.6	<1	<1	<1	<1	<1	<1
	UEP - R3	10/1/2021	<0.1	<50	<250	ND*	<1	7.2	<1	<1	<1	<1	<1	<1
	UEP - R4	1/17/2022	<0.01	<50	<250	ND*	<1	10.5	<1	<1	<1	<1	<1	<1
MW-BO2	UEP - R1	2/3/2021	<0.1	<50	<250	ND*	17	24.5	<1	<1	<1	<1	<1	<1
	UEP - R2	7/1/2021	<0.1	<50	<250	ND*	4.2	29.5	<1	<1	<1	<1	<1	<1
	UEP - R3	10/1/2021	<0.1	<50	<250	ND*	4.1	28.5	<1	<1	<1	<1	<1	<1
	UEP - R4	1/17/2022	<0.01	<50	<250	ND*	9.2	30.5	<1	<1	<1	<1	<1	<1
Ecology MTCA Method A Cleanup Levels ⁴ Unless Otherwise Specified			0.10	500	500	varies	5	3,200	5	50	15	2	80	80
Ecology MTCA Method C Industrial Cleanup Levels			0.22	NA	NA	varies	11	7,000	--	--	--	--	--	--
LDW Preliminary Screening Levels (PCULs) - GW-3			0.022	NA	NA	varies	220	830,000	1.2	600	19	2	390,000	55

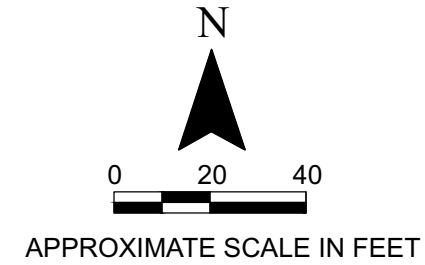
Notes:

Red denotes concentration exceeding MTCA cleanup level.






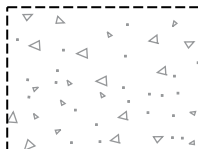
< = Not Detected at a concentration exceeding the specified laboratory reporting limit (RL).

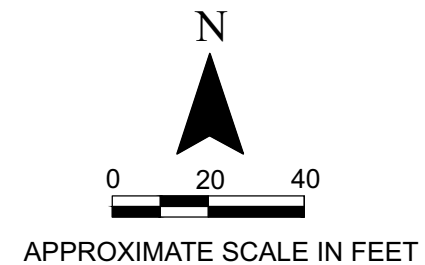
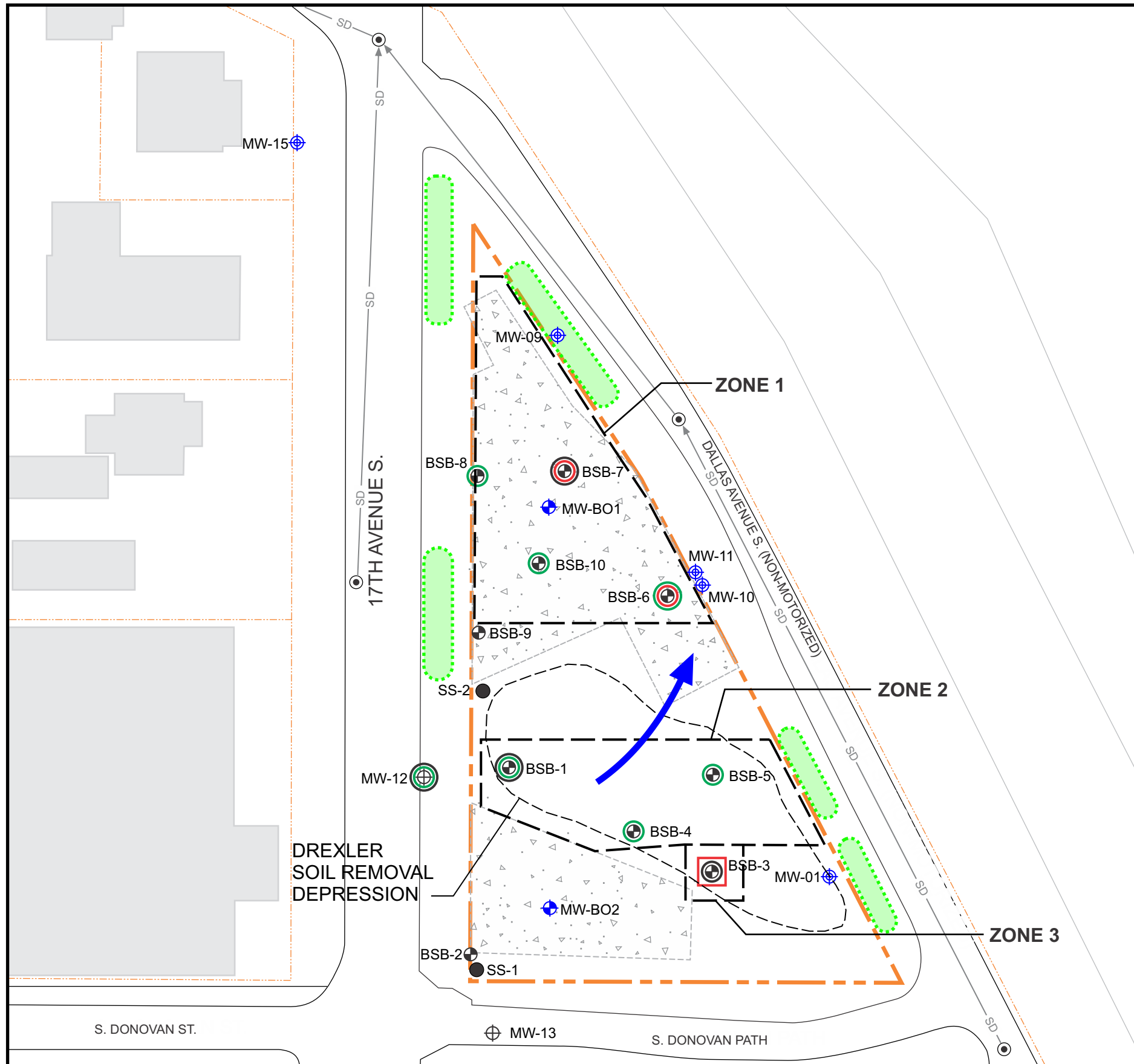
-- = not analyzed/not applicable

FIGURES



LEGEND

-  MW-BO1 MONITORING WELL (UEP, 2021) ABANDONED
-  MW-11 T-177 MONITORING WELL (2008) ABANDONED
-  STORMWATER SWALE
-  SD STORM DRAIN
-  SS SANITARY SEWER
-  CONCRETE SLAB



SOIL CLEANUP LEVELS	
PCBs	1.0 mg/kg (METHOD A UNRESTRICTED)
TPH OIL OR DIESEL RANGE	2,000 mg/kg (METHOD A UNRESTRICTED)
cPAHs TOTAL TEQ	0.1 mg/kg (METHOD A UNRESTRICTED)

LEGEND		
	MW-BO1	MONITORING WELL (UEP, 2021)
	MW-12	MONITORING WELL (SAIC, 2009) ABANDONED
	BSB-7	SOIL BORING (SAIC, 2009)
	MW-11	T-117 MONITORING WELL (2008) ABANDONED
	SS-2	SURFACE SOIL SAMPLE (SAIC, 2009)
		STORMWATER SWALE
	SD	STORM DRAIN
	SS	SANITARY SEWER
		PROPERTY LINE
		CONCRETE PAD
	0 TO 6":	PCBS ABOVE CULs
		TPH ABOVE CULs
		OTHER ABOVE CULs
	12.5'	PCBS ABOVE CULs
		PLANNED SOIL EXCAVATION AREAS
		LOCAL GROUNDWATER FLOW DIRECTION

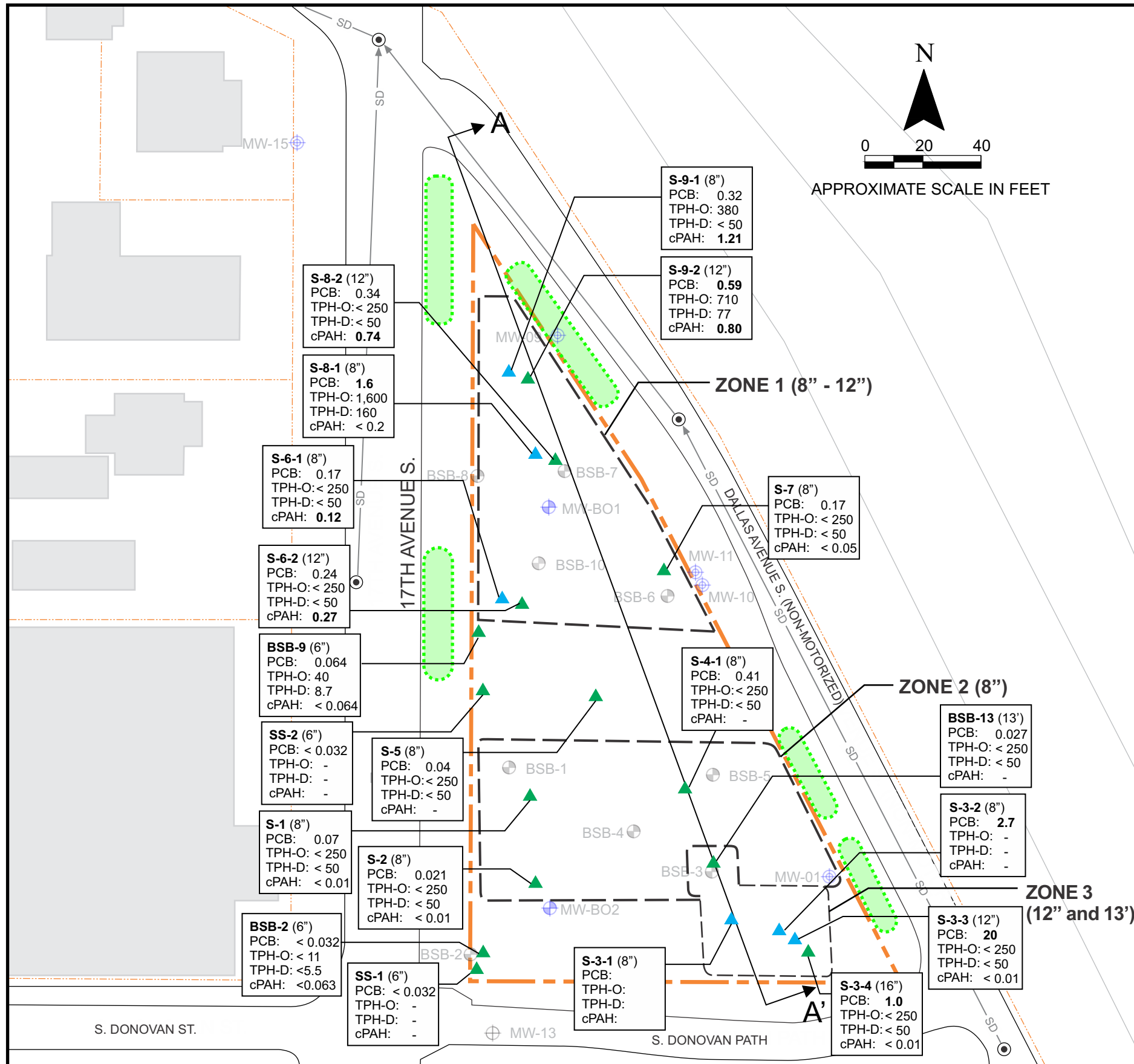
S. DONOVAN ST.

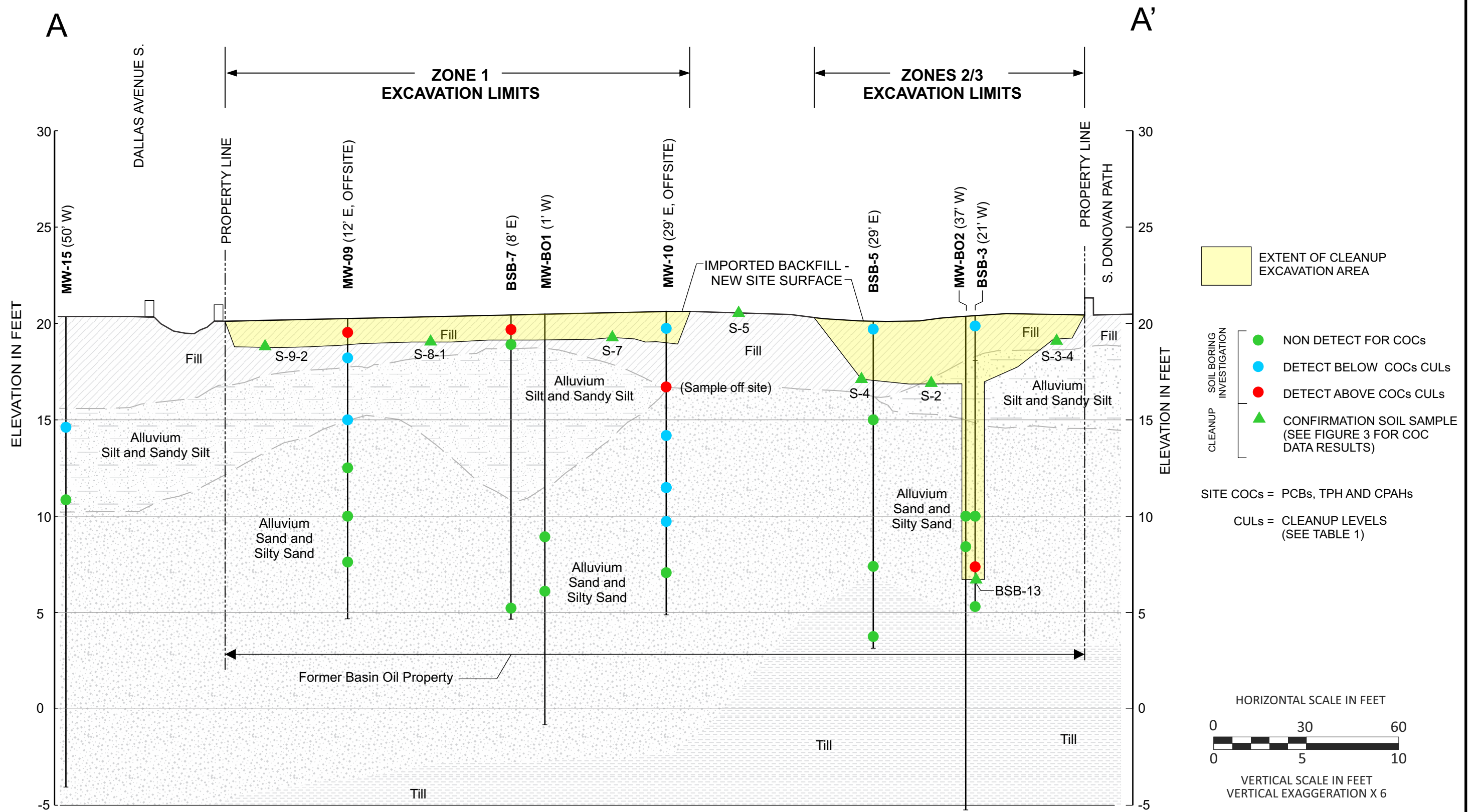
SS



Former Basin Oil
8661 Dallas Ave. S.
Seattle, WA

Figure 2
Soil Cleanup Excavation Plan





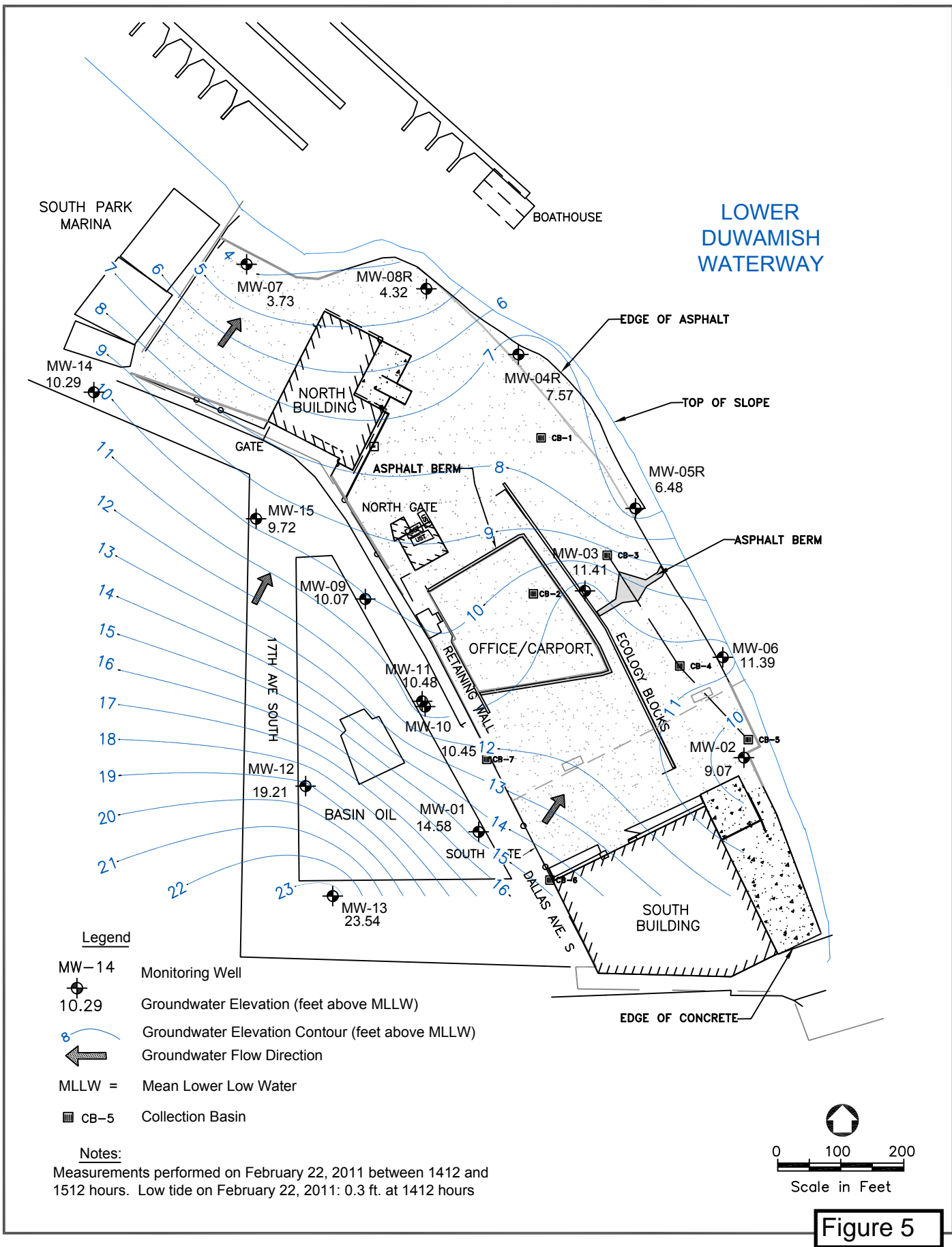


Figure 5

Figure 3-2
 Groundwater Surface Elevation Map
 Low Tide First Quarter 2011

Port of Seattle
 Terminal T-117
 Annual GW Report

Appendix A
Photo Documentation Log



Historical Aerial of Basin Oil and Malarkey Terminal 117



2021 Aerial of Basin Oil Property



Pre-Cleanup
North Side of Property



Pre-Cleanup
South Side of Property



Pre-Cleanup
Center of Property where Former
Owner Removed Soil



Pre-Cleanup
Center of Property



Site Preparation
Concrete Demo – Notice 1' – 2' thick
concrete



Site Preparation
Clearing and Trash Removal



Concrete Demo and Surface Soil Removal



Cleanup Excavation
Zone 2 Soil Excavation



Cleanup Excavation
Zone 3 Soil Excavation



Zone 1 Soil Conditions at Depth



Cleanup Excavation
In Area where Former Owner
Removed Soil



Cleanup Excavation
At Deep Soil Removal BSB-3 Location



Cleanup – Concrete Vault Removal



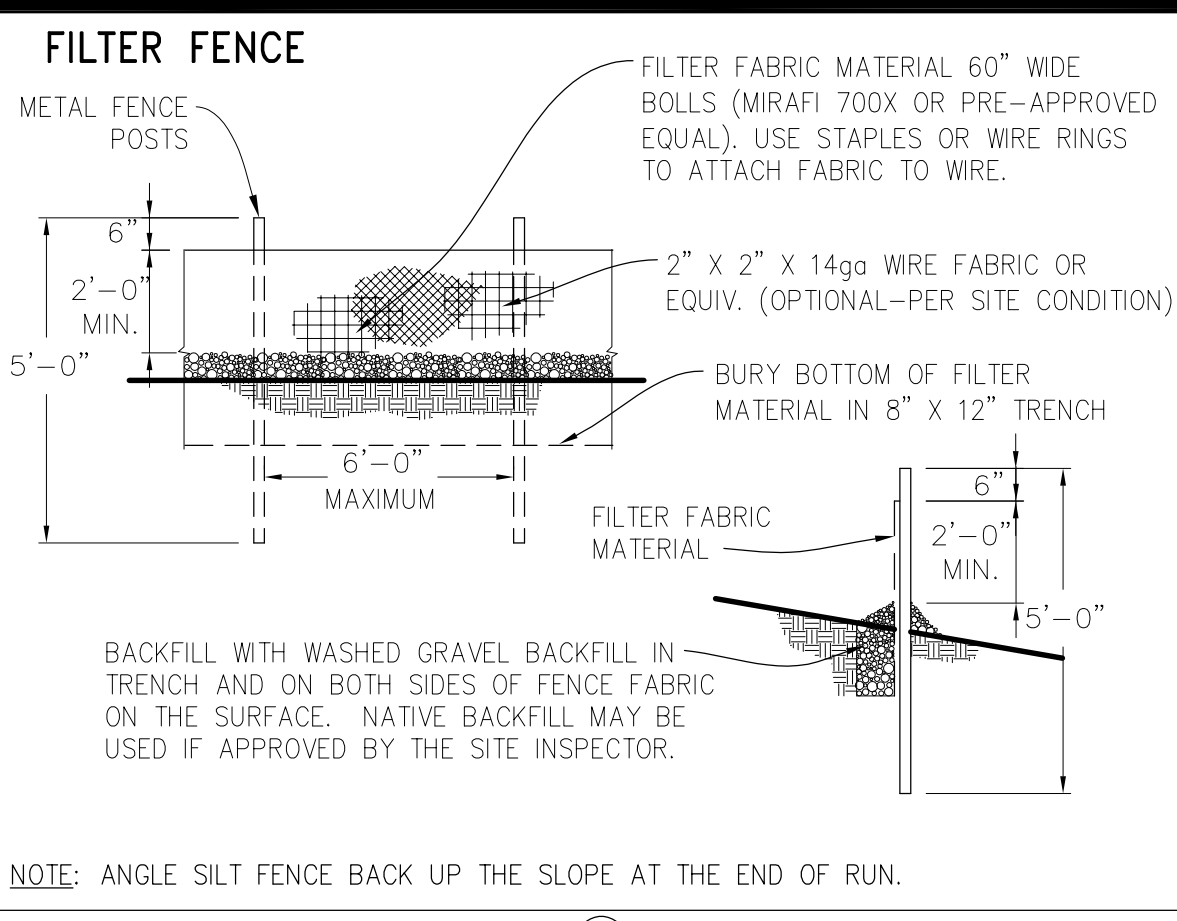
Site Restoration in Zone 1

Appendix B

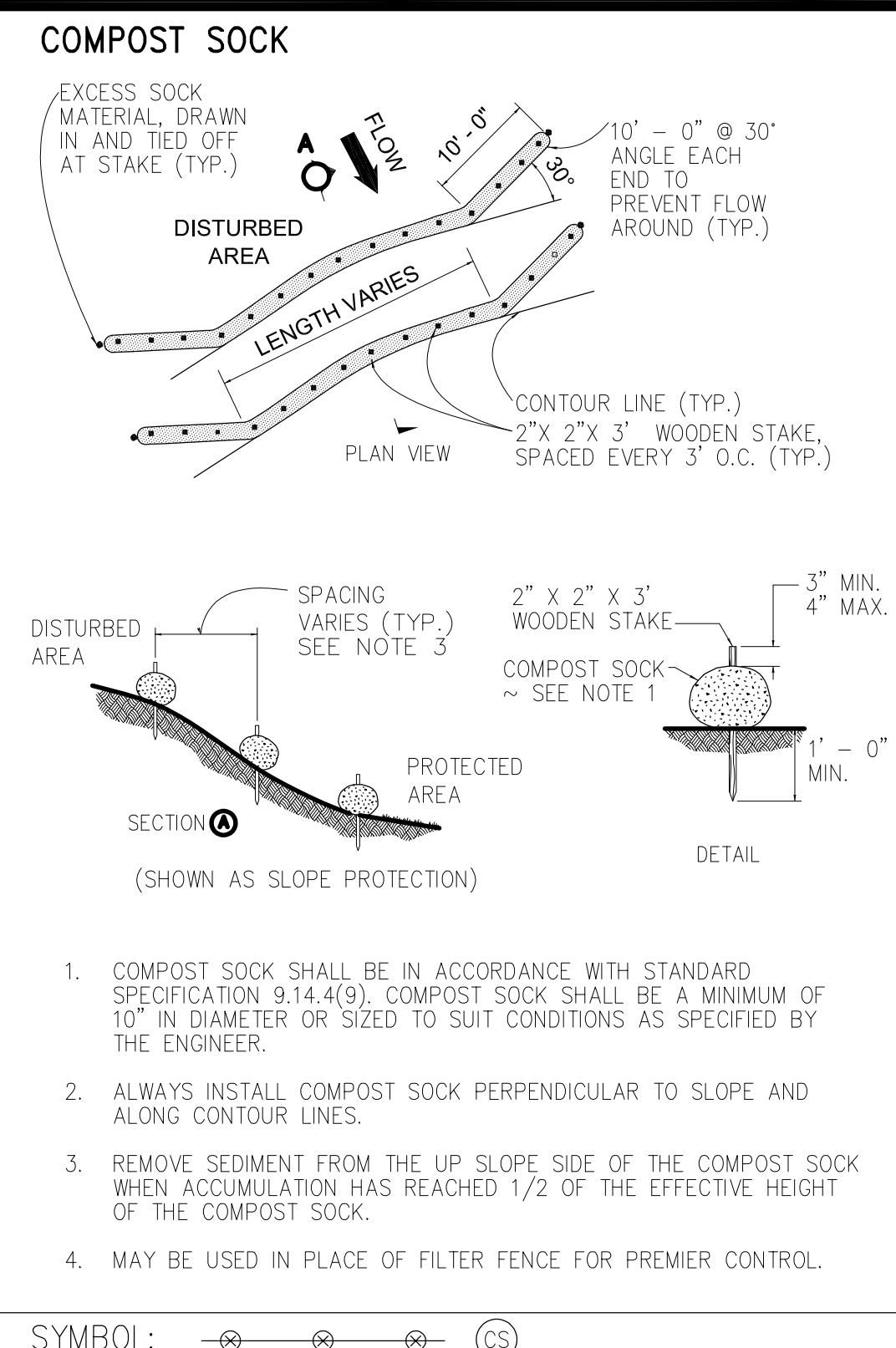
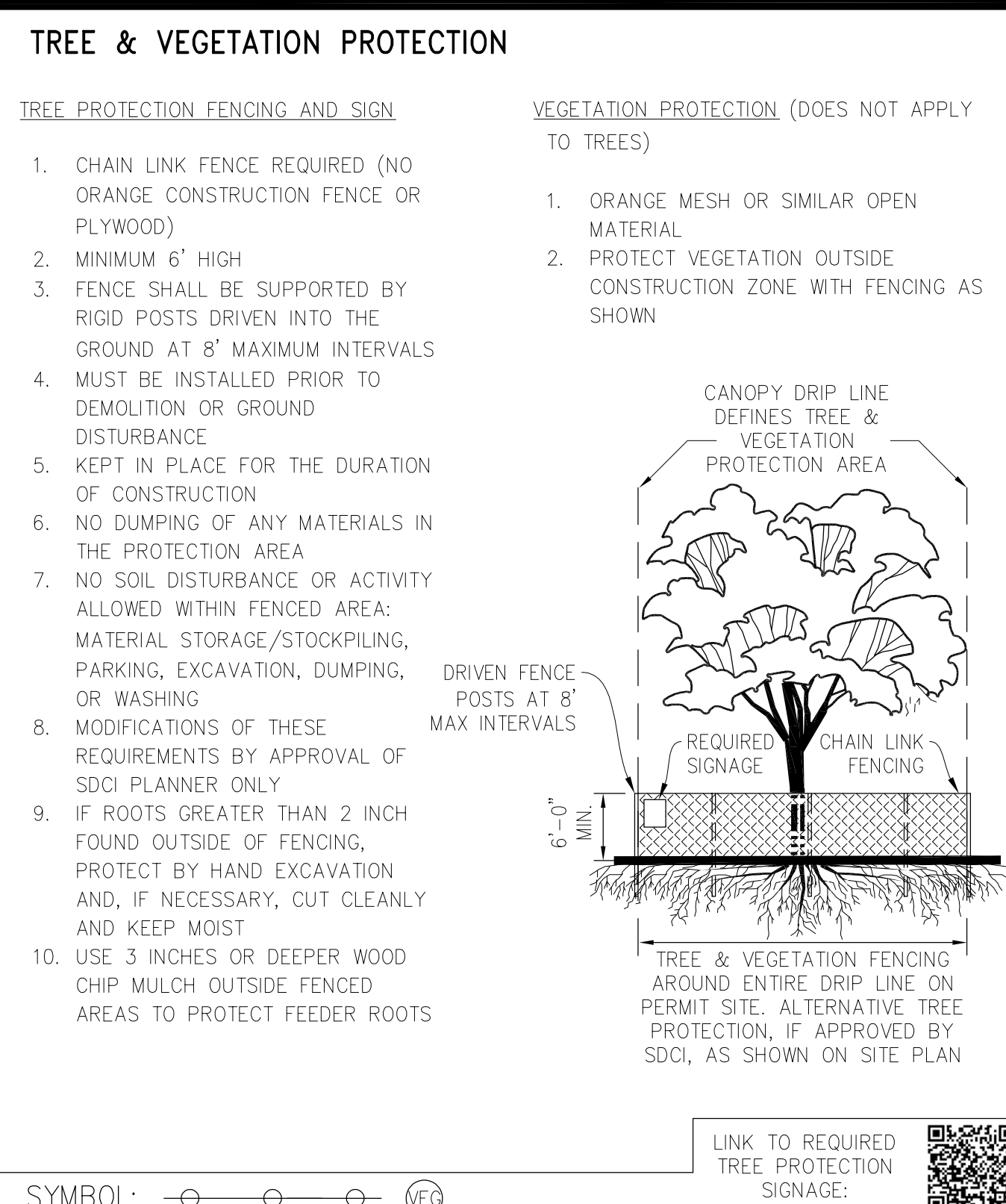
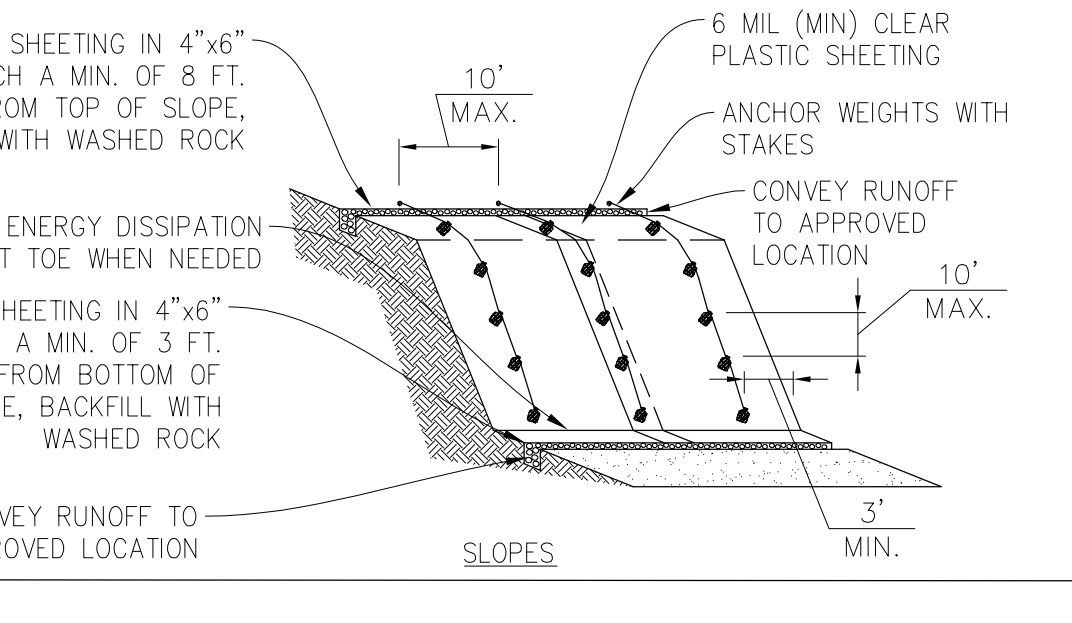
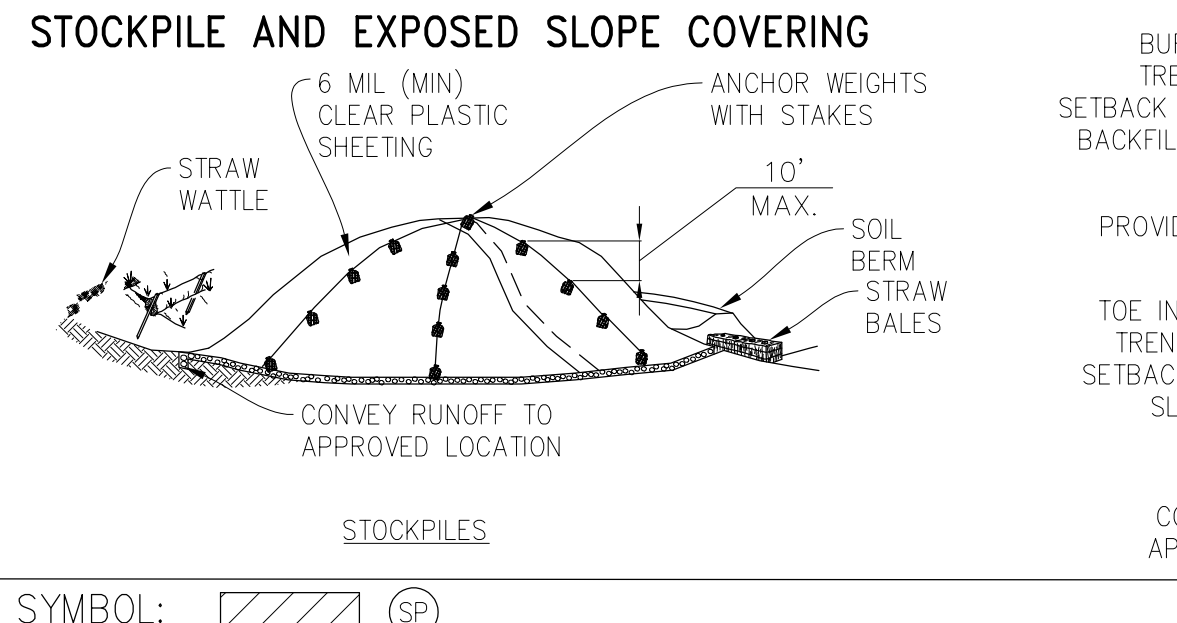
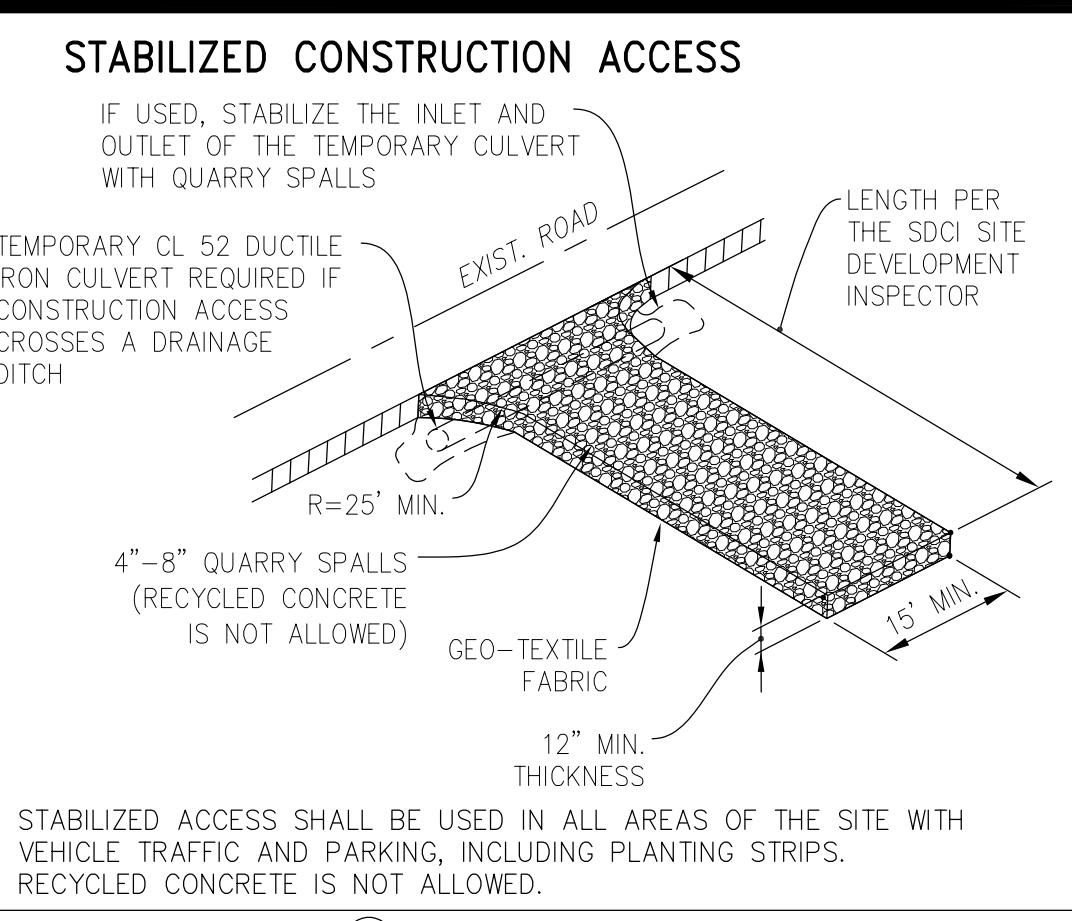
City of Seattle Subject-to-Field Demolition Permit Plan Set

CONSTRUCTION STORMWATER CONTROL (CSC) GENERAL NOTES

- A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY. SCHEDULE A FIRST GROUND DISTURBANCE INSPECTION FOR AN ISSUED BUILDING PERMIT AT 206-684-8900 OR ONLINE AS DESCRIBED AT <http://www.seattle.gov/sdci/inspections/site-development-inspections>
- THE APPLICANT SHALL DESIGNATE AN EROSION AND SEDIMENT CONTROL (ESC) SUPERVISOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). FOR LARGE CONSTRUCTION PROJECTS, THE ESC SUPERVISOR SHOULD BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROVIDE THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR TO THE SITE INSPECTOR AT THE FIRST GROUND DISTURBANCE INSPECTION.
- BMPs SHALL BE INSTALLED PRIOR TO STARTING CONSTRUCTION TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE PROJECT SITE OR ENTER ROADSIDE DITCHES, STORM DRAINS, SURFACE WATERS, OR WETLANDS.
- THE BMPs INCLUDED IN THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT BMPs ARE MODIFIED AS NEEDED FOR UNEXPECTED STORM EVENTS OR OTHER UNFORESEEN CIRCUMSTANCES, AND TO ACCOUNT FOR CHANGING SITE CONDITIONS.
- ANY AREAS OF DISTURBED SOIL THAT WILL NOT BE WORKED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BMPs METHODS (E.G. STRAW, MULCH, PLASTIC COVERING, COLD MIX, ETC.)
- GRADING AND/OR SOIL DISTURBING ACTIVITIES MAY BE LIMITED OR PROHIBITED FOR CERTAIN SITES SUBJECT TO ECA STANDARDS (I.E. ECA STEEP SLOPES, LANDSLIDE PRONE AREAS, ETC.) BETWEEN OCTOBER 31ST AND APRIL 1ST. IF NOTED IN THE GEOTECHNICAL SPECIAL INSPECTIONS REQUIREMENTS, A GRADING SEASON EXTENSION LETTER (GSEL) ISSUED BY SDCI IS REQUIRED FOR ALL GRADING AND/OR SOIL DISTURBING ACTIVITIES DURING THIS PERIOD. THE GEOTECHNICAL SPECIAL INSPECTOR MUST SUBMIT ELECTRONIC APPLICATIONS FOR A GSEL USING THE SDCI PROJECT PORTAL. ALLOW FOUR TO SIX WEEKS FOR PROCESSING. FAILURE TO OBTAIN THE GSEL PRIOR TO OCTOBER 31 MAY RESULT IN A WORK STOPPAGE.
- CITY STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AT ALL TIMES. NO MATERIAL SHALL BE STORED ON CITY STREETS OR SIDEWALKS WITHOUT A STREET USE PERMIT FROM THE SEATTLE DEPARTMENT OF TRANSPORTATION (SDOT).
- POLLUTION CONTROL MEASURES SHALL BE FOLLOWED TO ENSURE THAT NO LIQUID PRODUCTS OR CONTAMINATED WATER ENTERS ANY STORM DRAINAGE FACILITIES OR OTHERWISE LEAVES THE PROJECT SITE. ANY HAZARDOUS MATERIALS OR LIQUID PRODUCTS THAT HAVE THE POTENTIAL TO POLLUTE RUNOFF SHALL BE STORED AND DISPOSED OF PROPERLY.
- ENSURE THAT WASHOUT FROM CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR TO STORM DRAINS OR OPEN DITCHES. DO NOT DUMP EXCESS CONCRETE ON-SITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
- ALL AREAS OF DISTURBED SOIL SHALL BE FULLY STABILIZED WITH THE APPROPRIATE SOIL AMENDMENT AND COVER MEASURES AT COMPLETION OF THE PROJECT. TYPICAL COVER MEASURES INCLUDE LANDSCAPING OR HYDROSEED WITH MULCH.



SYMBOL:



TEMPORARY DEWATERING NOTES

- PROJECTS OTHER THAN SINGLE FAMILY PROJECTS THAT INCLUDE GROUNDWATER DEWATERING THAT WILL DISCHARGE TO PUBLIC COMBINED SEWER BASIN REQUIRE A SIDE SEWER PERMIT FOR TEMPORARY DEWATERING (SSPTD). WHEN REQUIRED, A KING COUNTY CONSTRUCTION DEWATERING AUTHORIZATION MUST FIRST BE OBTAINED. CONSTRUCTION STORMWATER DISCHARGES DO NOT REQUIRE AN SSPTD. HOWEVER, ADDITIONAL APPROVALS ARE REQUIRED FOR CONTAMINATED SITES AS DESCRIBED BELOW.
- IF THE SITE CONTAINS CONTAMINATED SOILS OR CONTAMINATED GROUNDWATER THE FOLLOWING WILL BE REQUIRED.
 - SITES DISCHARGING TO PUBLIC STORM DRAINS MUST RECEIVE ECOLOGY APPROVAL THROUGH EITHER A CONSTRUCTION STORMWATER GENERAL PERMIT OR THROUGH AN INDIVIDUAL ECOLOGY PERMIT.
 - SITES DISCHARGING TO A COMBINED SEWER BASIN MUST OBTAIN APPROVAL THROUGH A KING COUNTY CONSTRUCTION DEWATERING AUTHORIZATION.

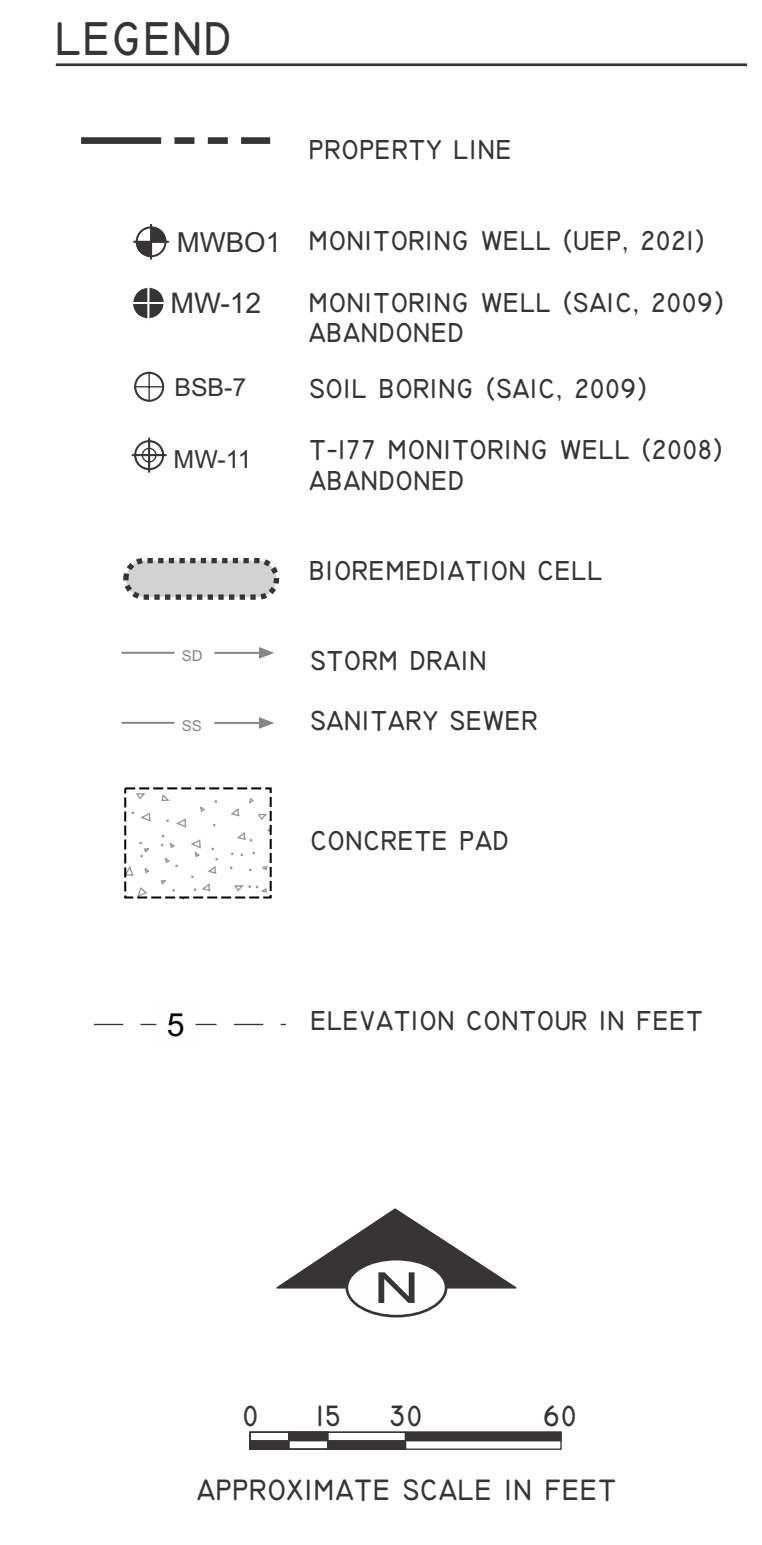
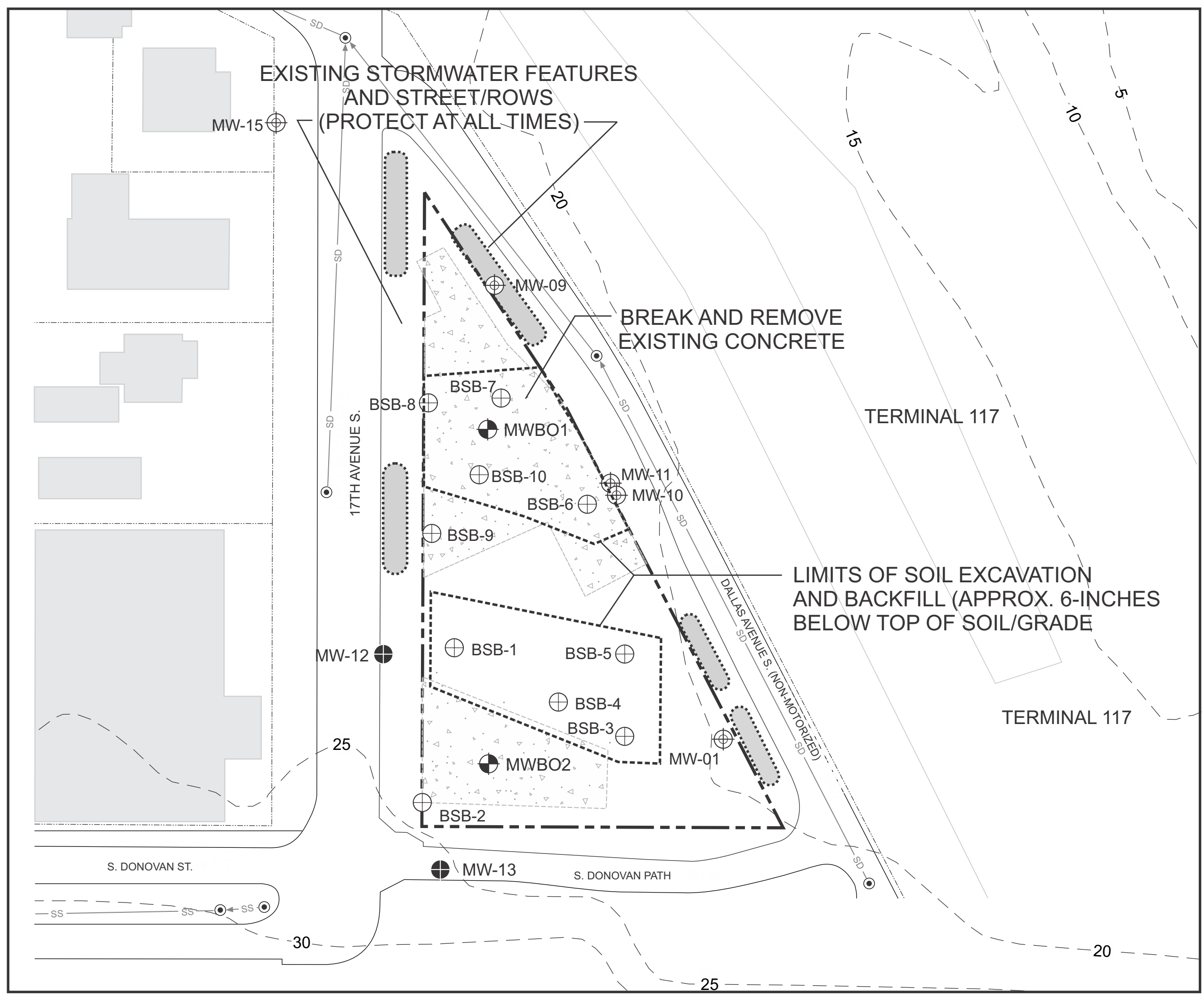
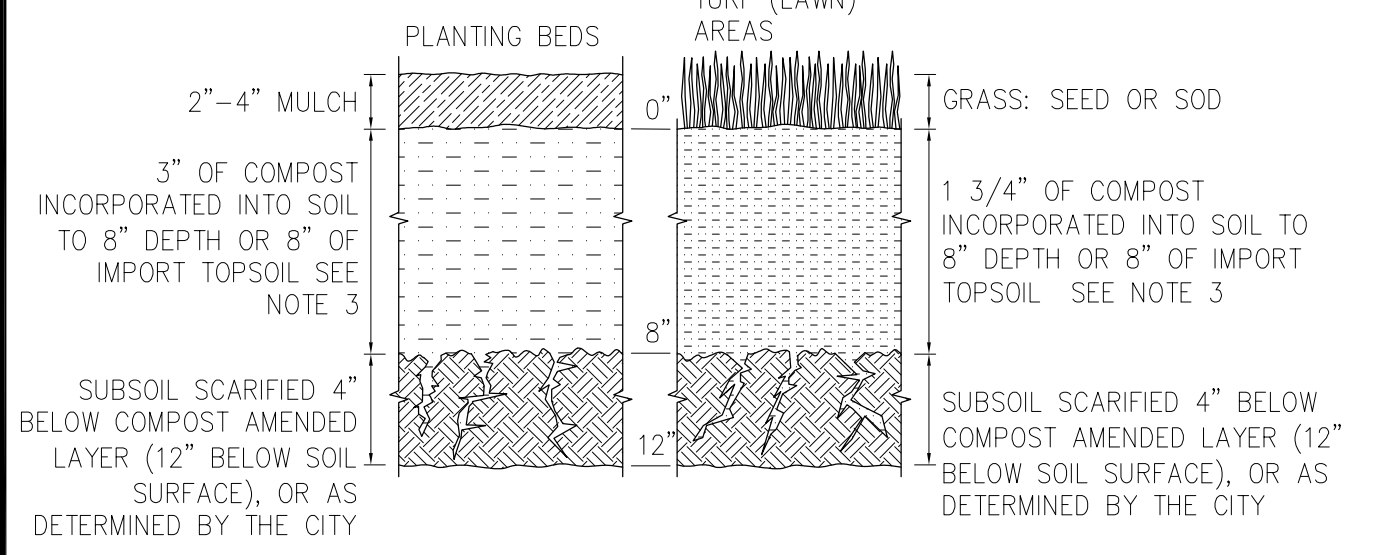
POST CONSTRUCTION SOIL MANAGEMENT PLAN

AT THE END OF PROJECT, ALL AREAS DISTURBED AND NOT COVERED WITH A HARD SURFACE MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL BELOW AND PROBE TO 12-INCHES AT THE SITE FINAL INSPECTION.

LABEL ALL AREAS DISTURBED AND NOT COVERED WITH A HARD SURFACE AS ONE OF THE FOLLOWING: SA (SOIL AMENDMENT AREA) or ND (NON-DISTURBED AREA).

- NON-DISTURBED AREA (ND): VEGETATED AREAS THAT WILL NOT BE SUBJECT TO LAND DISTURBING ACTIVITY DO NOT REQUIRE SOIL AMENDMENT IF THEY ARE FENCED AND CONTINUOUSLY PROTECTED THROUGHOUT CONSTRUCTION. THE FENCING MUST BE IN PLACE AT THE FIRST GROUND DISTURBANCE INSPECTION. NO DISTURBANCE, INCLUDING VEHICLE TRAFFIC OR MATERIAL STORAGE, IS ALLOWED IN THESE AREAS UNTIL FINAL INSPECTION.
- SOIL AMENDMENT AREA (SA): VEGETATED OR COMPOST AREAS (TURF AND LANDSCAPE) MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL. THIS INCLUDES AREAS IMPACTED BY CLEARING AND GRADING, STOCKPILING, SITE ACCESS, PATHWAYS AND MATERIALS OR EQUIPMENT STORAGE.

SOIL AMENDMENT



DEMOLITION PERMIT CSC/SOIL SPECIAL NOTES:

- A FIRST GROUND DISTURBANCE INSPECTION AND VERIFICATION OF RAT ABATEMENT IS REQUIRED PRIOR TO STARTING THE DEMOLITION WORK. SCHEDULE THE INSPECTION THROUGH THE SEATTLE SERVICES PORTAL OR CALL 206-684-8900.
- FOR PROJECTS WITH AN ASSOCIATED CONSTRUCTION PERMIT APPLICATION:
 - INTERIM GROUND STABILIZATION WITH COVER PRACTICES MUST BE IMPLEMENTED AND THE CONSTRUCTION PERMIT MUST BE ISSUED BEFORE FINAL INSPECTION OF THIS DEMOLITION PERMIT, OR
 - ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE POST CONSTRUCTION SOIL MANAGEMENT PLAN SHOWN AT THE BOTTOM LEFT OF THIS PLAN WITH APPROVED BMPs FOR PERMANENT COVER PRACTICES.
- FOR PROJECT WITHOUT AN ASSOCIATED CONSTRUCTION PERMIT APPLICATION:
 - ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE POST CONSTRUCTION SOIL MANAGEMENT PLAN SHOWN AT THE BOTTOM LEFT OF THIS PLAN WITH APPROVED BMPs FOR PERMANENT COVER PRACTICES.
- IF THE EXISTING SIDE SEWER IS SHARED WITH ANOTHER PROPERTY, SERVICE TO THAT PROPERTY SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER THE DEMOLITION. A PERMANENT OR TEMPORARY CAP MUST BE PLACED ON THE END OF THE UNUSED LATERAL.
- A SIDE SEWER PERMIT IS REQUIRED IF THE SIDE SEWER IS TO BE PERMANENTLY CAPPED. A PERMANENT CAP IS REQUIRED IF THERE IS NOT AN ACCEPTED BUILDING PERMIT APPLICATION THAT WILL RE-USE THE SIDE SEWER. ABANDONED SIDE SEWERS SHALL BE CAPPED AS CLOSE TO THE PROPERTY LINE AS POSSIBLE WITHOUT INTERRUPTING SERVICE TO ANY OTHER BUILDING.
- STRUCTURAL STABILIZATION OF REMAINING BASEMENT WALLS IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- TREE REMOVAL MAY REQUIRE ADDITIONAL PERMITS OR APPROVALS AND IS NOT NOT AUTHORIZED UNDER THIS DEMOLITION PERMIT UNLESS INDICATED TO BE REMOVED ON AN APPROVED SITE PLAN. SEE SDCI TIP #242.
- SEE SDCI TIP 337, "DEMOLITION AND DECONSTRUCTION" FOR MORE INFORMATION ON DEMOLITION PERMIT REQUIREMENTS.

USE OF PRE-APPROVED DEMO CSC/SOIL PLAN:

THIS PRE-APPROVED PLAN MAY ONLY BE USED FOR SMALL DEMOLITION PERMITS WHERE THERE WILL BE LESS THAN 5,000 SQUARE FEET OF LAND DISTURBING ACTIVITY AND DRAINAGE REVIEW IS NOT REQUIRED.

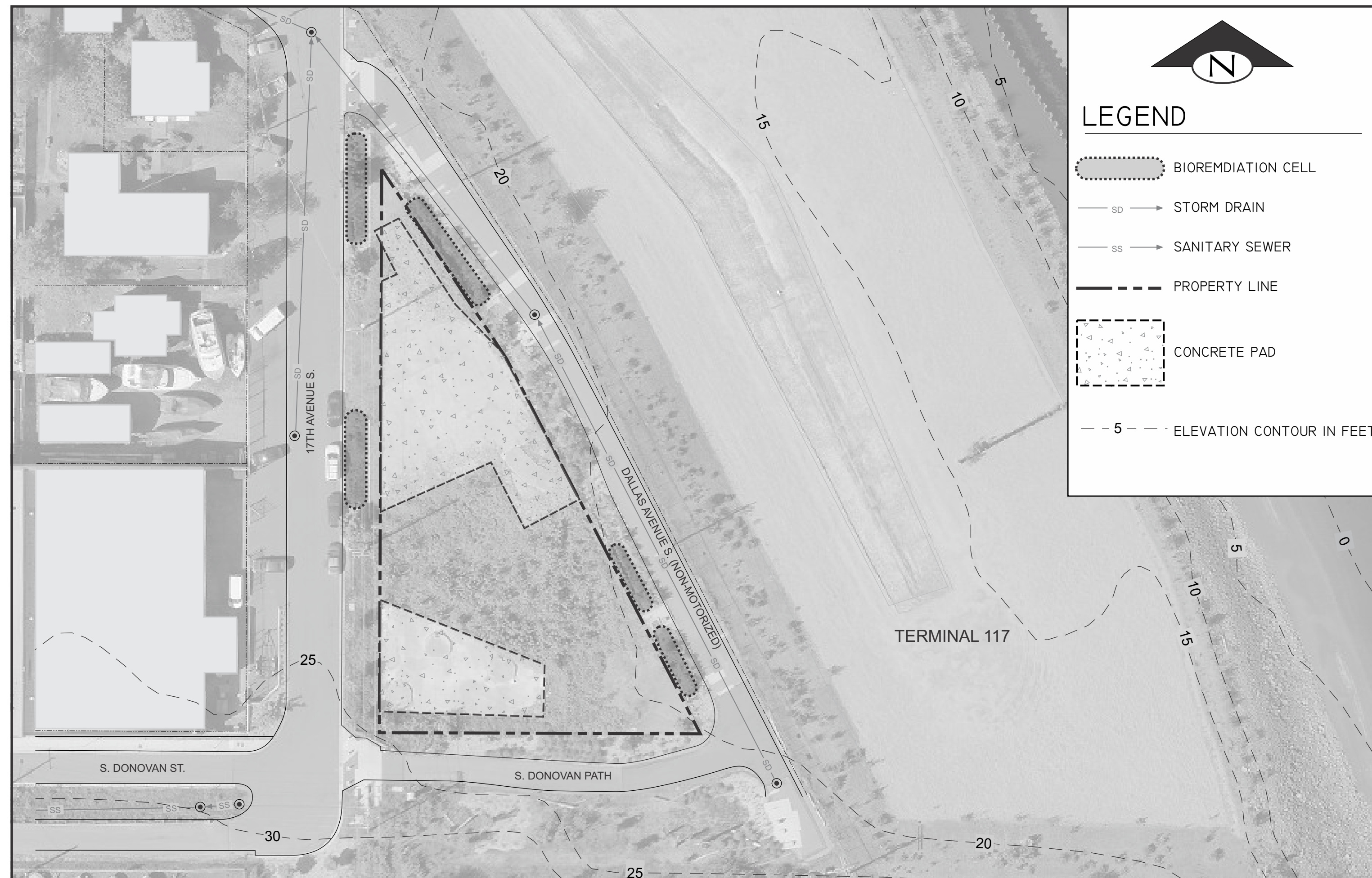
THIS IS AN EXAMPLE PLAN THAT SHOWS THE TYPICAL MINIMUM CONSTRUCTION STORMWATER CONTROL BMPs AND SOIL AMENDMENT BMPs REQUIRED FOR A SMALL DEMOLITION PERMIT.

THE CONTRACTOR SHALL CONFIGURE THESE AND ANY OTHER REQUIRED BMPs BASED ON THE SPECIFIC SITE CONDITIONS AND EXTENTS OF DISTURBANCE. SEE ALSO CONSTRUCTION STORMWATER CONTROL (CSC) GENERAL NOTE #5.

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION & INSPECTIONS
PRE-APPROVED PLAN
SUBJECT TO CONDITIONS OF USE INDICATED ABOVE

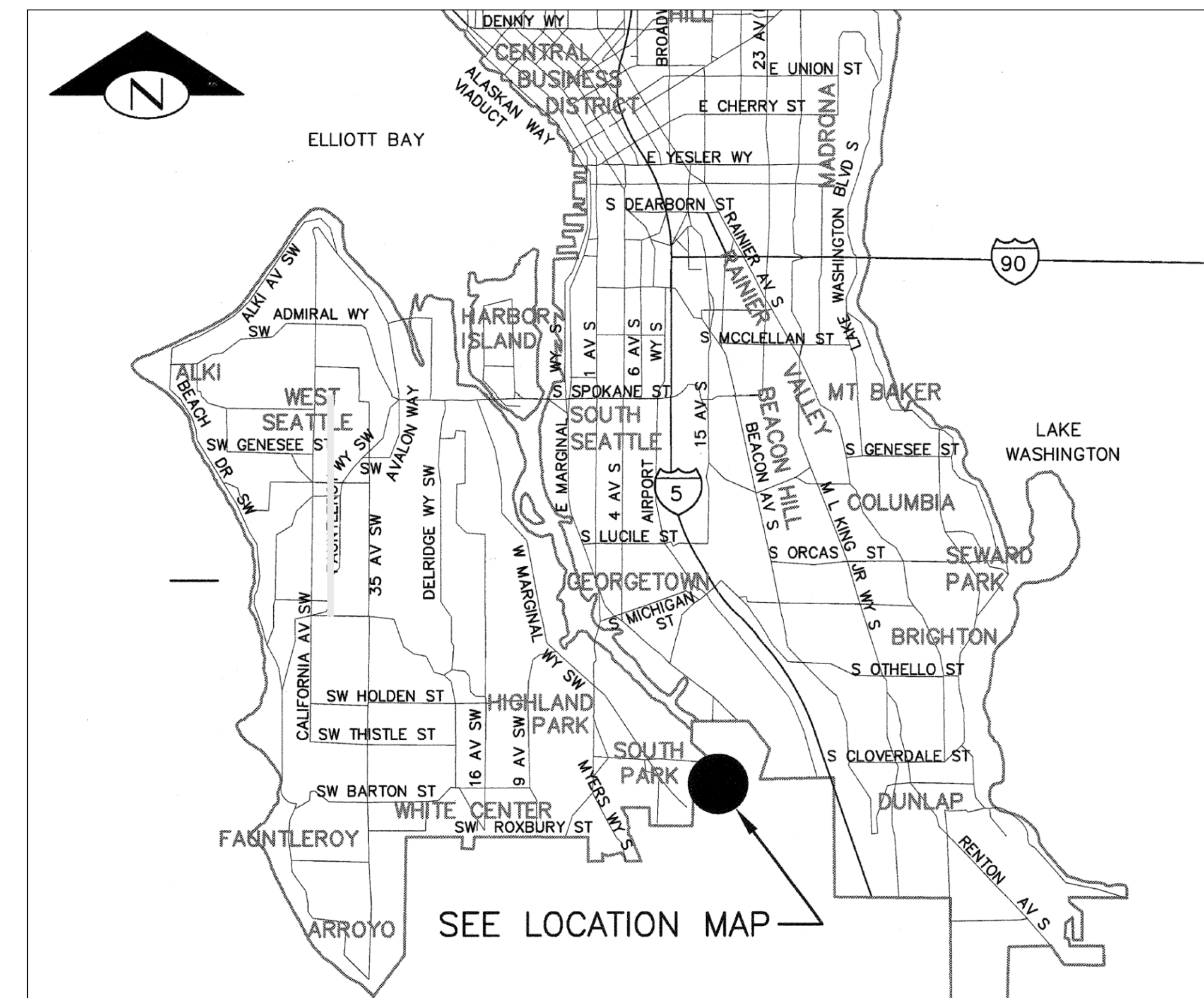
**PROJECT SITE:
PADRAIC PARK
8661 DALLAS AVE. S.,
SEATTLE, WASHINGTON**

PETROLEUM CONTAMINATED SOIL REMOVAL AT 8661 DALLAS AVE. S. SEATTLE, WASHINGTON



GENERALIZED SITE PLAN

1" = 40'



VICINITY MAP

1" = 1 MILE

OWNER
SOUTH PARK ROYALTY LLC

LEGAL DESCRIPTION
SOUTH PARK HEIGHTS
PLAT BLOCK: 2
PLAT LOT: 1 TO 5 & 7-8

PROPERTY ADDRESS
8661 DALLAS AVE. S
PARCEL NO. 788410 - 0110

ENVIRONMENTAL CO.
URBAN ENVIRONMENTAL
PARTNERS LLC
2324 FIRST AVE, #203
SEATTLE, WA 98121
PH: (425) 922-9922
CONTACT: JOHN FUNDERBURK

SHEET INDEX

- C1.00 COVER SHEET
- C1.10 TOPOGRAPHIC SURVEY
- C1.20 LEGEND AND NOTES
- C2.00 TESC PLAN
- C2.10 TESC DETAILS
- C3.00 GRADING AND BACKFILL PLAN

**CALL 48 HOURS
BEFORE YOU DIG
811 OR 1-800-424-5555**

PERMIT DOCUMENTS

REFERENCES:	NO.	REVISION	DATE	APRVD

DRAWN	BTS
DESIGNED	RKK
CHECKED	RKK
REVIEWED	JRF


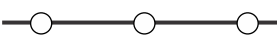





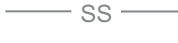




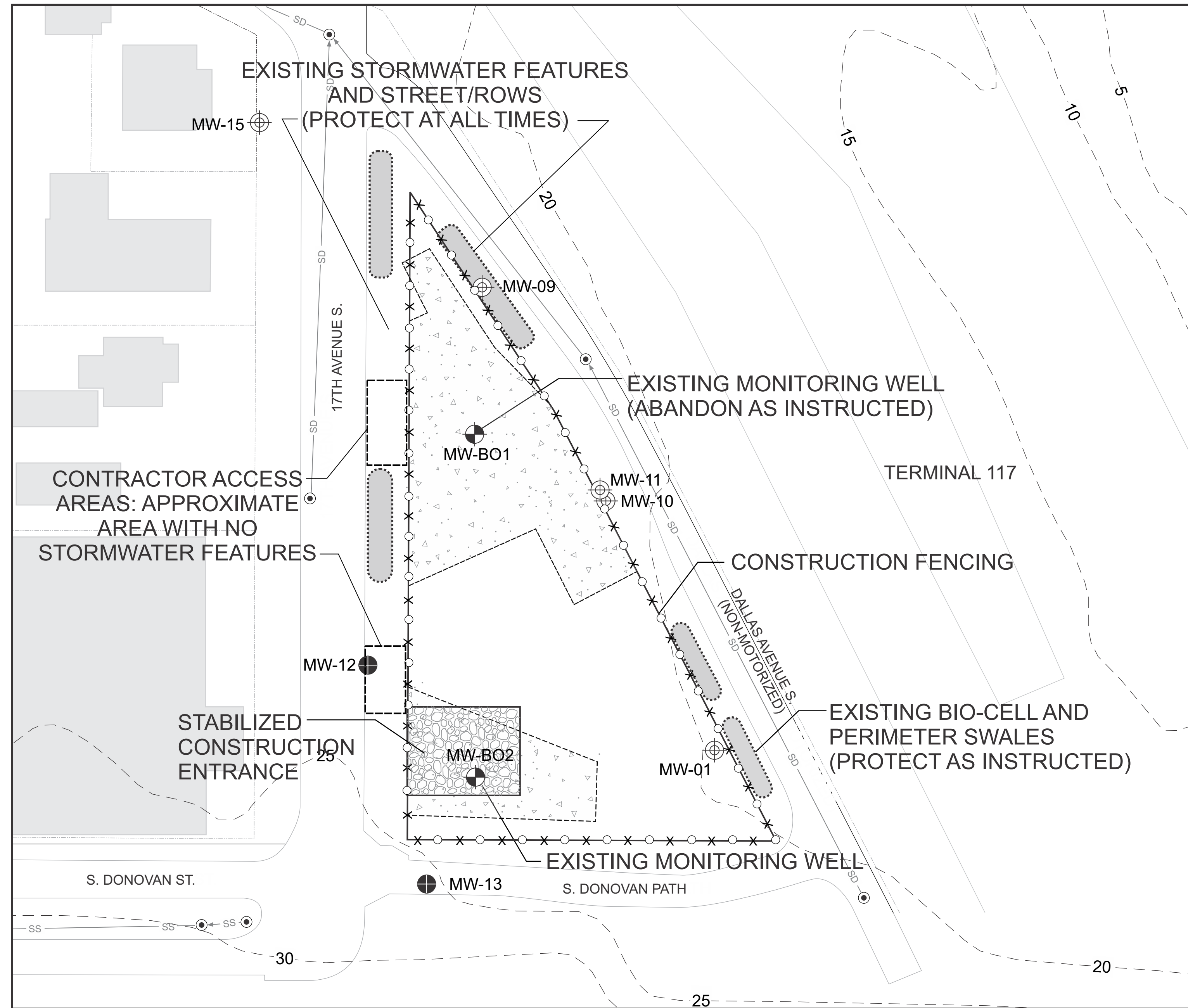
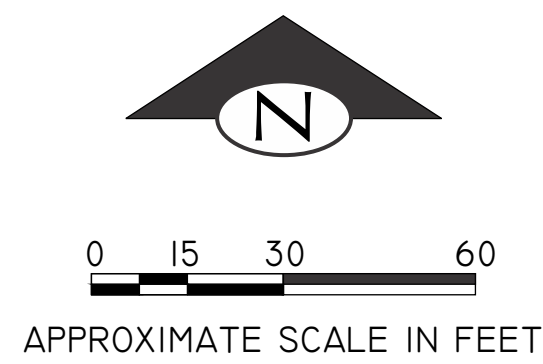
Urban Environmental Partners LLC
Diligent, responsive, and practical consulting!

PETROLEUM CONTAMINATED SOIL REMOVAL
COVER SHEET
8661 DALLAS AVE. S
SEATTLE, WASHINGTON

DATE: JANUARY 14, 2022
PROJECT: BASIN OIL
C1.00

LEGEND

-  CONSTRUCTION FENCING (PROPERTY LINE)
-  STRAW WATTLE
-  MW-BO1 MONITORING WELL (UEP, 2021)
-  MW-12 MONITORING WELL (SAIC, 2009) ABANDONED
-  MW-11 T-177 MONITORING WELL (2008) ABANDONED
-  BIOREMEDIATION CELL
-  SD → STORM DRAIN
-  SS → SANITARY SEWER
-  CONCRETE PAD
-  - - 5 - - - ELEVATION CONTOUR IN FEET



TESC NOTES

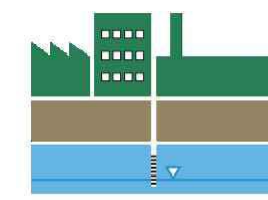
1. SITE TESC BMP'S SHALL BE ESTABLISHED AND MANAGED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL).
2. CONTRACTOR SHALL ADJUST LOCATION OF EROSION CONTROL ELEMENTS BASED ON ACTUAL SITE CONDITIONS AND EFFECTIVENESS, AS APPROVED BY THE CESCL.
3. SITE IS A NO DISCHARGE (OFF THE PROJECT SITE) PROJECT. ANY COLLECTED WATER IN EXCAVATION OR ON SITE SHALL BE COLLECTED BY A VAC-TRUCK AND HAULED OFF SITE FOR TREATMENT AND DISCHARGE. DURING ACTIVE SITE ACTIVITIES, SUCH AS EXCAVATION AND BACKFILLING, A VAC-TRUCK WILL BE AVAILABLE AT ALL TIMES.
4. PROJECT IS A NO DUST SITE. CONTRACTOR SHALL USE WATER SPRAY OR OTHER METHODS TO ENSURE A NO DUST CONDITION DURING ALL ACTIVITIES, INCLUDING CLEAR AND GRUB, CONCRETE DEMO, AND EXCAVATION AND RESTORATION.
5. STOCKPILES (CONTAMINATED SOIL OR IMPORTED BAG KFILL) SHALL BE PROTECTED IN EVENTS WHERE STOCKPILES ARE STANDING FOR MORE THAN 4 HOURS OR ANYTIME DURING RAIN EVENTS. SEE DETAIL 5 ON SHEET.

**CALL 48 HOURS
BEFORE YOU DIG
811 OR 1-800-424-5555**

PERMIT DOCUMENTS

REFERENCES:	NO.	REVISION	DATE	APRVD

DRAWN _____ BTS
 DESIGNED _____ RKK
 CHECKED _____ RKK
 REVIEWED _____ JRF



**Urban
Environmental
Partners llc**
Diligent, responsive, and practical consulting!

**PETROLEUM CONTAMINATED SOIL REMOVAL
TEMPORARY EROSION AND SEDIMENT
CONTROL (TESC) PLAN**

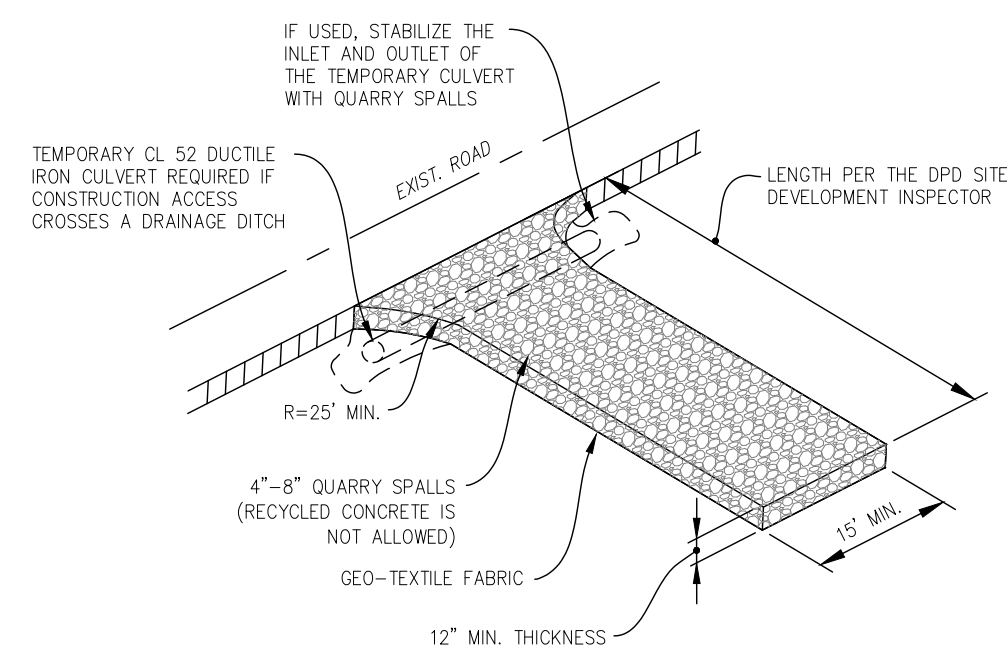
DATE: JANUARY 14, 2022

PROJECT: BASIN OIL

8661 DALLAS AVE. S
SEATTLE, WASHINGTON

C2.00

STABILIZED CONSTRUCTION ACCESS

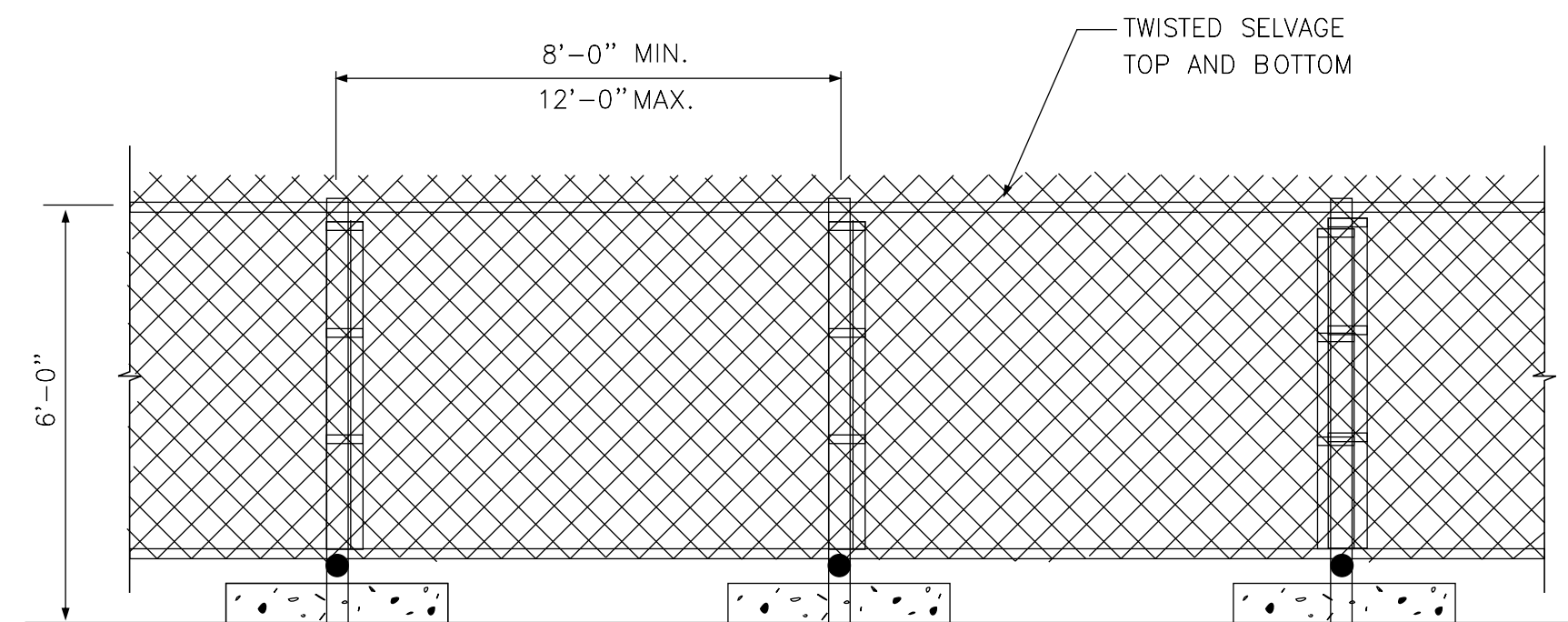


MAINTENANCE STANDARDS

1. QUARRY SPALLS (TYPE 1) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE QUARRY SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD.
3. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, OR INCREASE IN THE DIMENSIONS OF THE ENTRANCE.
4. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE RETURNED TO THE SITE AND HANDLED WITH CONTAMINATED SOIL. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY.
5. ANY QUARRY SPALLS THAT ARE LOOSEENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
6. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING SHALL BE INSTALLED TO CONTROL TRAFFIC.

STABILIZED CONSTRUCTION ACCESS ^{NTS}

1

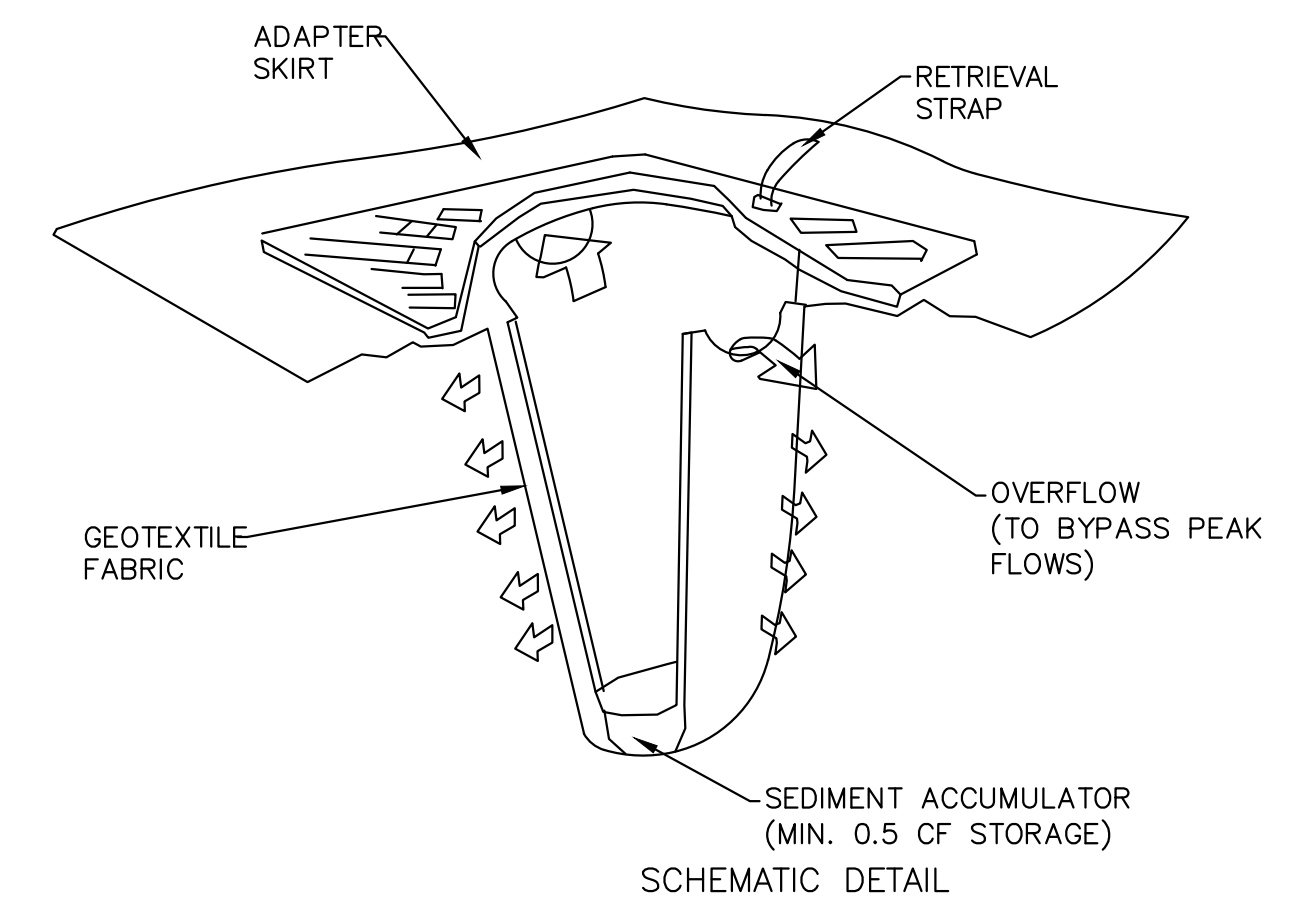


NOTES:

1. CHAIN LINK FABRIC TO BE MIN. 11 GAUGE, NO RUSTED OR EXCESSIVELY MALFORMED FABRIC.
2. FENCE BASES SHALL BE OF SUFFICIENT WEIGHT AND/OR SPREAD ADEQUATELY SUPPORT EACH PANEL.
3. PANEL-TO-PANEL CONNECTIONS SHALL BE MADE AT MIN. TWO LOCATIONS PER CONNECTION UNLESS OTHERWISE APPROVED.
4. INSTALL 11'-8" X 5'-6" MESH CONSTRUCTION SCRIM PER FENCE PANEL AND/OR CONSTRUCTION WARNING SIGNAGE 50' O.C. BASED ON CONSTRUCTION GRAPHIC PLAN.

TEMPORARY CHAINLINK CONSTRUCTION FENCE ^{NTS}

2

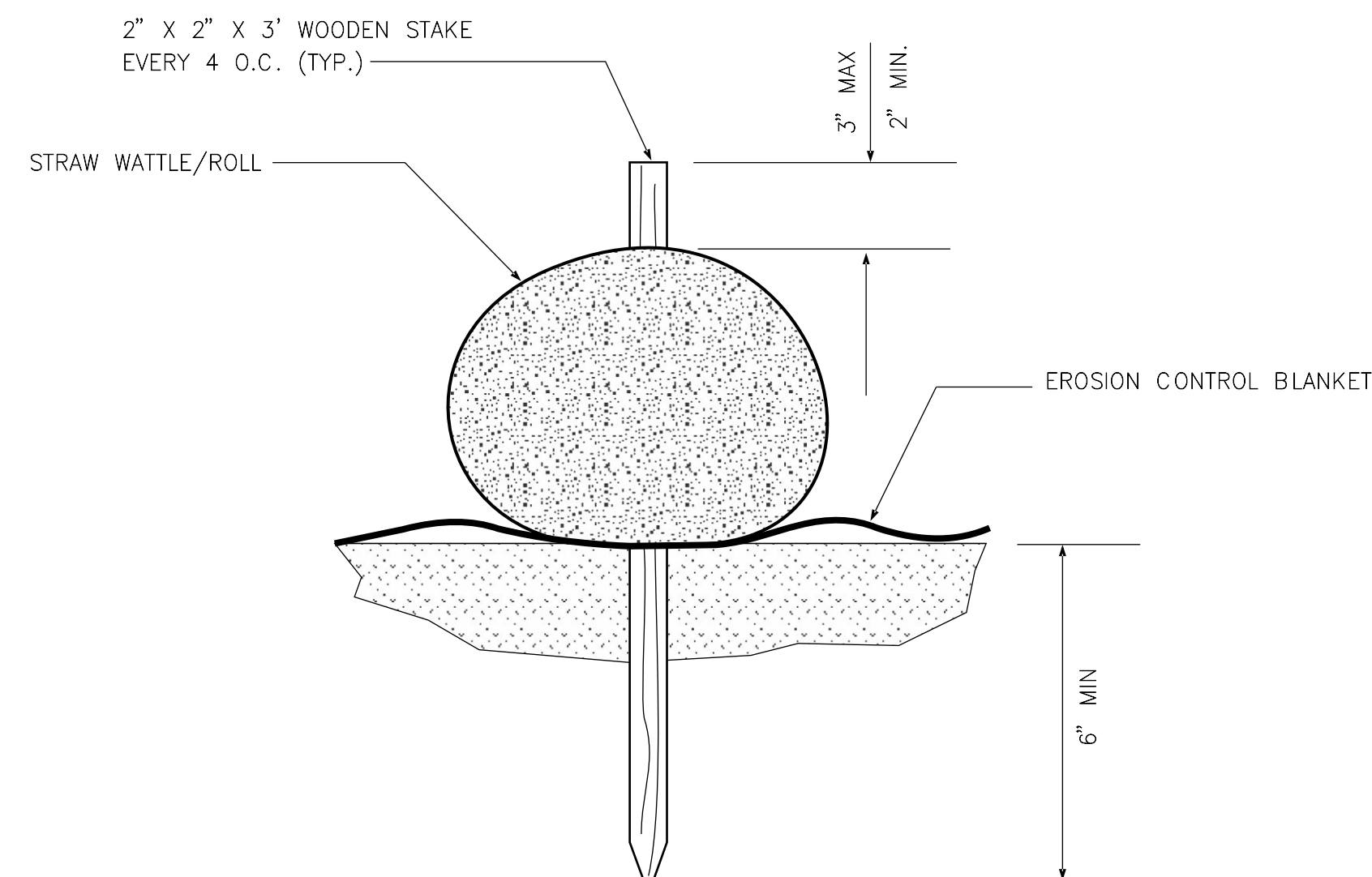


PROVIDE "STREAMGUARD SEDIMENT CATCH BASIN INSERT" OR APPROVED EQUAL

MANUFACTURER INFORMATION:
BOWHEAD ENVIRONMENTAL & SAFETY
P.O. BOX 375
PRESTON, WA 98050
(800) 909-3677
WWW.SHOPBOWHEAD.COM

INLET PROTECTION ^{NTS}

3

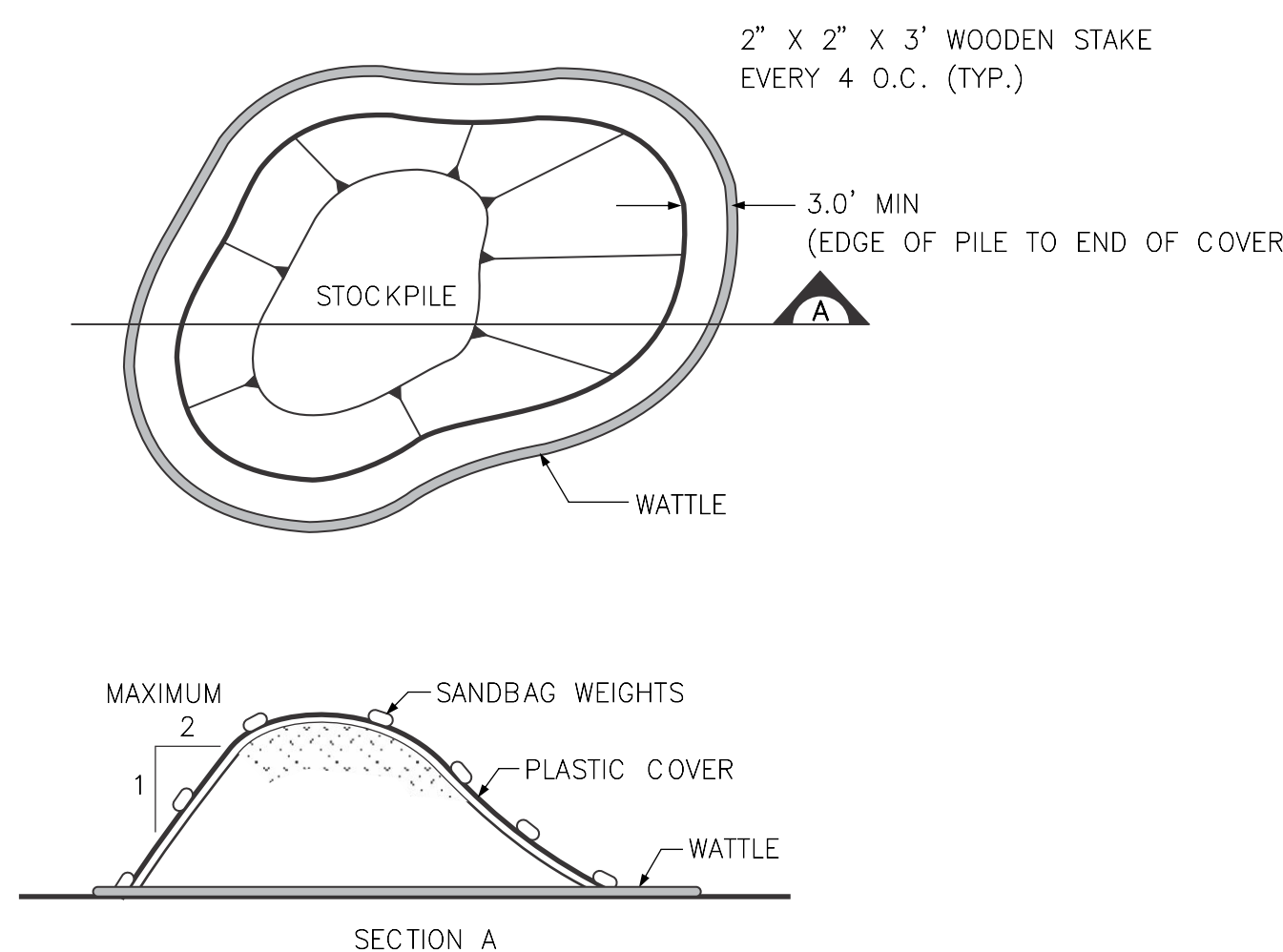


NOTES:

1. STRAW WATTLE/ROLL SHALL BE MANUFACTURED FROM RICE STRAW SILT FENCE A STRAND THICKNESS OF 0.03" AND A KNOT THICKNESS OF 0.055 AND A WEIGHT OF 0.35 OZ PER FOOT AND SHALL BE MADE FROM 85% HDPE, 14% ETHYL VINYL ACETATE AND 1% COLOR FOR UV INHIBITION.
2. STRAW WATTLE/ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE/ROLL IN A TRENCH, 3"-5" (VARIES) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE/ROLL.

STRAW WATTLE/ROLL DETAIL ^{NTS}

4



NOTES:

1. TIE SANDBAGS TO NYLON ROPE EVERY 3-4 FEET, ROPE LINE EVERY 5 FEET ON CENTER.

STOCKPILE PROTECTION ^{NTS}

5

NOT USED 6

CALL 48 HOURS BEFORE YOU DIG
811 OR 1-800-424-5555

PERMIT DOCUMENTS

REFERENCES:	NO.	REVISION	DATE	APRVD

DRAWN: BTS
DESIGNED: RKK
CHECKED: RKK
REVIEWED: JRF



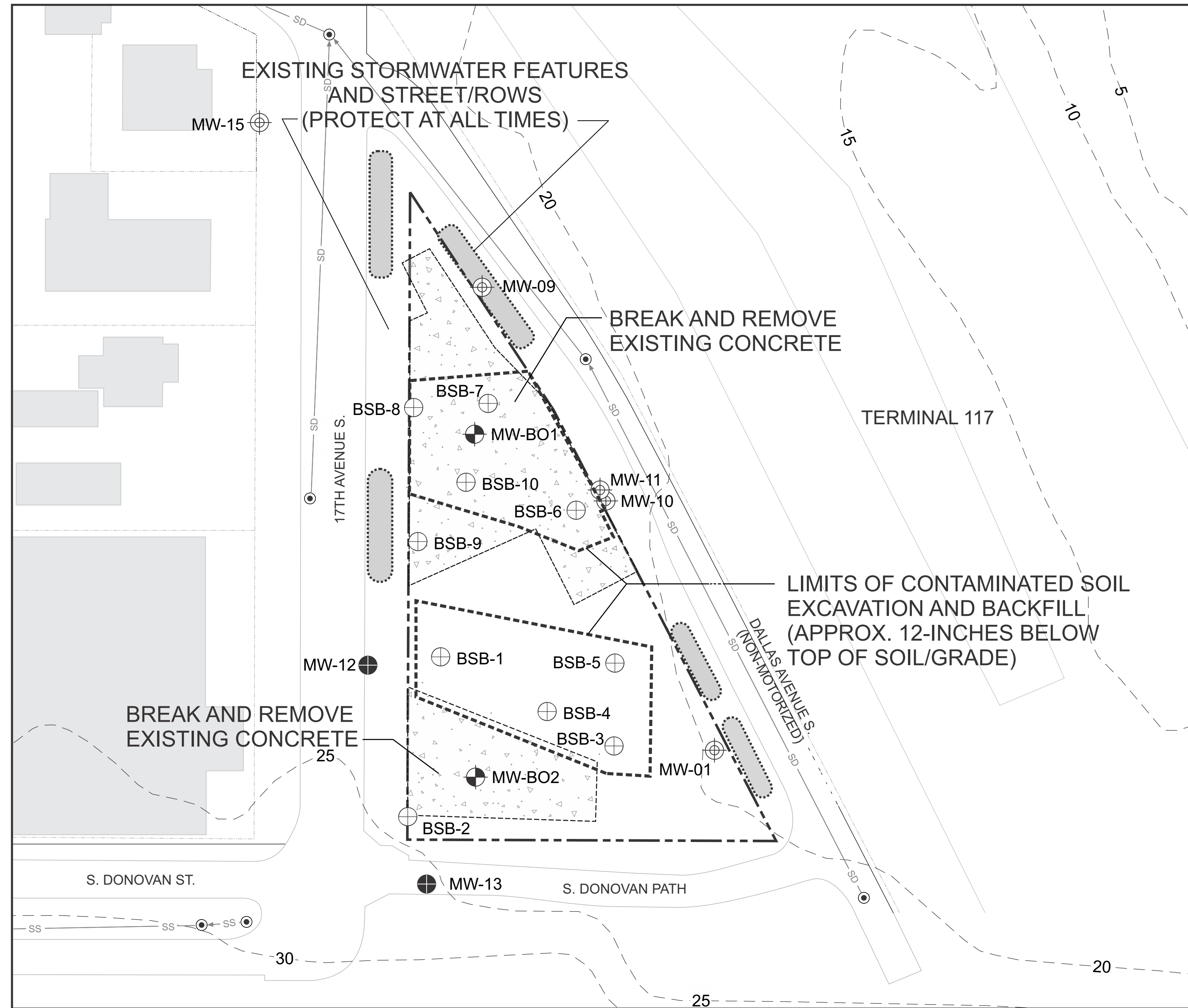
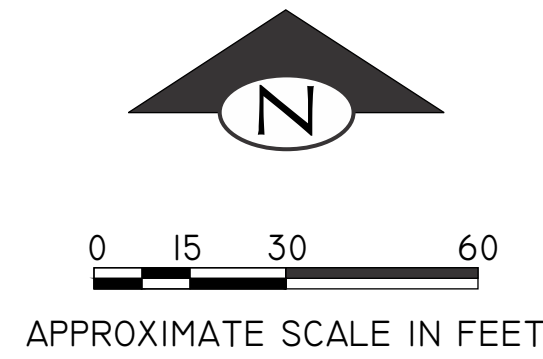
PETROLEUM CONTAMINATED SOIL REMOVAL
TESC DETAILS
8661 DALLAS AVE. S
SEATTLE, WASHINGTON

DATE: JANUARY 14, 2022
PROJECT: BASIN OIL

C2.10

LEGEND

- PROPERTY LINE
- MW-BO1 MONITORING WELL (UEP, 2021)
- MW-12 MONITORING WELL (SAIC, 2009) ABANDONED
- BSB-7 SOIL BORING (SAIC, 2009)
- MW-11 T-177 MONITORING WELL (2008) ABANDONED
- BIOREMEDIATION CELL
- SD STORM DRAIN
- SS SANITARY SEWER
- CONCRETE PAD
- 5 ELEVATION CONTOUR IN FEET



SITE MOBILIZATION AND GRADING NOTES

1. CONTRACTOR SHALL PERFORM AN UNDERGROUND UTILITY LOCATE, AND CERTIFY TO THE OWNER THAT ALL SITE UTILITIES HAVE BEEN LOCATED OR ARE INACTIVE, PRIOR TO BEGINNING THE WORK.
2. CLEAR AND GRUB VEGETATION ON THE ENTIRE PROPERTY. ALL CONCRETE STRUCTURES SHALL BE BROKEN AND REMOVED FROM THE PROPERTY. BRUSH OR SHAKE CLINGING SOIL FROM THE CONCRETE PRIOR TO LOADING. CONCRETE RUBBLE WILL BE DISPOSED OF EITHER AT A: __ RECYCLE FACILITY OR __ WASTE DISPOSAL FACILITY.
3. EXCAVATE, STOCKPILE AND FINE GRADE FINISH TOP 12-INCHES OF SURFACE SOILS FROM THE AREA SHOWN ON THE PLANS. THIS LAYER IS MEASURED AFTER PROPERTY CLEAR GRUB AND CONCRETE IS REMOVED.

EXCAVATED SOIL WILL BE SEGERATED AND CHEMICALLY PROFILED BY THE OWNER BEFORE REMOVAL (OWNER REQUIRES 2 DAYS TO PROFILE). PROFILED SOIL WILL BE LOADED AND HAULED DIRECTLY TO THE SELECTED WASTE FACILITY, AS DIRECTED BY THE OWNER. SUBTITLE D LANDFILL (E.G., WM OR REPUBLIC) OR INERT WASTE LANDFILL (E.G., RESERVE SILICA CORP, RAVENSDALE, WA).
- WASTE DISPOSAL WILL BE PAID BY: __ CONTRACTOR OR __ OWNER.
4. FOLLOWING DESIGN EXCAVATION, PROVIDE AT LEAST TWO DAYS FOR OWNER TO COLLECT AND HAVE ANALYZED SOIL SAMPLES FROM THE GRADED SURFACE. BASED ON THE LAB RESULTS, OWNER MAY DIRECT CONTRACTOR TO CONTINUE SOIL EXCAVATION AND FINE GRADE FINISH ANOTHER 6- TO 12-INCH THICK LIFT IN SPECIFIC AREAS. ANOTHER ROUND OF SOIL SAMPLING AND ANALYSIS, EXCAVATION AND GRADING WILL CONTINUE UNTIL ALL SOIL SAMPLES ARE BELOW THE SITE'S ACTION LEVELS.
5. ONCE SOIL CLEANUP IS COMPLETED, RESTORE THE SITE WITH IMPORTED, CLEAN BACKFILL. THE CONTRACTOR WILL USE IMPORTED BACKFILL OR, IF AVAILABLE, PRESENT AN ALTERNATIVE CLEAN BACKFILL MATERIAL. GRADE BACKFILL MATERIAL TO DRAIN TOWARD THE CENTER OF THE SITE AND SPREAD VEGETATION SEED (PROVIDED BY THE OWNER). PLACE A 2-INCH THICK AND 3-FEET WIDE LAYER OF CRUSHED ROCK AROUND THE PERIMETER OF THE SITE.
6. THE OWNER SHALL MAKE A FINAL SITE WALK AND INSPECTION. FOLLOWING THE SITE WALK AND DIRECTION BY THE OWNER, REMOVE ALL EXISTING EROSION AND SEDIMENT CONTROL FEATURES, SWEEP STREETS FOR TRACK OUT AS NEEDED.

MONITORING AND QUALITY CONTROL

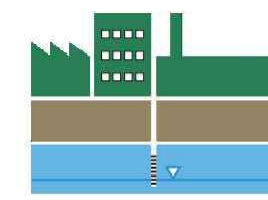
1. THE OWNER SHALL PROVIDE FULL TIME OBSERVATION MONITORING AND SOIL SAMPLING DURING THE WORK. THE CONTRACTOR SHALL ADJUST EXCAVATION EXTENTS (MAINLY DEPTH) AS INSTRUCTED BY THE OWNER.
2. BEFORE AND AFTER THIS WORK, A VISUAL AND PHOTOGRAPHIC SURVEY SHALL BE MADE OF ADJACENT STORMWATER FEATURES AND SWALES TO DOCUMENT THEIR CONDITIONS. PERIMETER STORMWATER FEATURES AND CITY STREETS SHALL BE PROTECTED AND NOT DAMAGED DURING THIS WORK (OR REPAIRED/REPLACED BY THE CONTRACTOR).
3. EXISTING MONITORING WELLS WILL BE DECOMMISSIONED BY THE OWNER PRIOR TO THE WORK.
4. THE CONTRATOR SHALL KEEP RECORDS AND FIELD NOTES PERTAINING TO DAILY ACTIVITY, MONITORING RESULTS, AND QUANTITY OF CONCRETE AND SOIL REMOVED FROM THE SITE.

CALL 48 HOURS BEFORE YOU DIG
811 OR 1-800-424-5555

PERMIT DOCUMENTS

REFERENCES:	NO.	REVISION	DATE	APRVD

DRAWN: BTS
DESIGNED: RKK
CHECKED: RKK
REVIEWED: JRF



Urban Environmental Partners llc
Diligent, responsive, and practical consulting!

PETROLEUM CONTAMINATED SOIL REMOVAL EXCAVATION AND BACKFILL PLAN

8661 DALLAS AVE. S
SEATTLE, WASHINGTON

DATE: JANUARY 14, 2022

PROJECT: BASIN OIL

C3.00

Appendix C

Site Groundwater Monitoring Wells Decommissioning Documentation



Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

AE74313

WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Submit one completed form for each job site and required fee (check or money order only) to:
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.									
1. Property Owner South Park Royalty LLC					Phone Number (206) 217-9514				
Mailing Address 4039 21st Ave W			City Seattle		State WA		Zip Code 98199		
2. Agent (if different from above) Urban Environmental Partners LLC					Phone Number (425) 922-9922				
Mailing Address 2324 1st Avenue			City Seattle		State WA		Zip Code 98121		
3. Well Location									
Tax Parcel Number, Township, Range, Section, 1/4, and 1/4 1/4 are Required. Latitude and longitude (if available).									
County Name King - 17									
Well Site Street Address 8661 DALLAS AVE S					City SEATTLE		State WA		Zip Code
Tax Parcel Number		Township 24N	Range 4E	Section 33	1/4 (within 160 acres) NW		1/4 - 1/4 (within 40 acres) SW		
Latitude Degrees			Latitude Time min sec			Horizontal Collection Method			
Longitude Degrees			Longitude Time min sec						
4. Notice of Intent Number of well being decommissioned RE20575					Unique Well Tag Number of well being decommissioned (if applicable)				
5. Well Type to Decommission Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101 How Many? 2									
6. Estimated Decommission Start Date 8/19/2022					Project Name Basin Oil				
7. Professional's License Number 32174									
8. Well Drilling Company Name							Phone Number		
9. Well Driller Name Roy Kuroiwa (425) 922-9922							Driller License Number		

10. Send the entire form.

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well : \$50.00
 Soil Sampling, Dewatering,
 Environmental investigation wells: No Fee
 All other wells: \$20.00 each
 Amount Enclosed \$ **\$40.00**

This notification number must be provided to your driller:

AE74313

Your validation will be sent to the e-mail address you provided: johnf@uepconsulting.com

8/13/2022 12:33. Confirmation Number: 22081330145192. This begins your 72 hour wait period.

Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

For Assistance

Contact the Department of Ecology Regional Office where the well is located.

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:

Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:

Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:

Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:

Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388

ECY 040- 24 To request ADA accommodation including materials in a format for the visually impaired, call Ecology Water Resources Program at 360-407-6872. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.

Resource Protection Well Report

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

Type of Work:

- Construction
 Decommission ⇔ Original NOI No. _____

Ecology Well ID Tag No. BMR862

Site Well Name MW-1

Consulting Firm _____

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

If yes, what was the variance for? _____

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) Swanson, Eric

Driller/Engineer/Trainee Signature [Signature]

License No. 3188

Company Name Holocene Drilling Inc.

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. RE20575

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 South Park Royalty LLC

Well Street Address 8661 Dallas Ave S

City Seattle County King

Tax Parcel No. _____

Location (see instructions): WWM or EWM

SW ¼-¼ NW ¼, Section 33 Town 24 Range 4

Latitude (Example: 47.12345) _____

Longitude (Example: -120.12345) _____

(WGS 84 Coordinate System)

Borehole diameter 8 inches Casing diameter 2 inches

Static water level _____ ft below top of casing Date _____

- Above-ground completion with bollards Flush monument

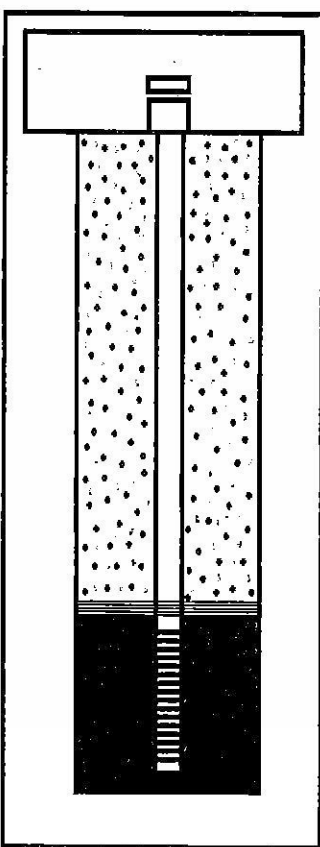
Stick-up of top of well casing _____ ft above ground surface

Start Date 1.22.21 Completed Date 1.22.21

Construction Design

Well Data

Driller's Log

<p>Vault</p> <p><u>0</u> FT</p> <p>to</p> <p><u>3</u> FT</p> <p>Seal</p> <p><u>3</u> FT</p> <p>to</p> <p><u>18</u> FT</p> <p>Filter Pack</p> <p><u>18</u> FT</p> <p>to</p> <p><u>30</u> FT</p> 	<p>Casing Diameter <u>2"</u></p> <p>Casing Material <u>PVC</u></p> <p><input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Glued</p> <p>Well Seal Material <u>Bent chips</u></p> <p>Borehole Diameter: <u>8</u> From <u>0</u> to <u>36.5</u></p> <p>From _____ to _____</p> <p>Screen:</p> <p>Material <u>2" PVC</u></p> <p>From <u>20</u> to <u>30</u></p> <p>Slot Size <u>10</u></p> <p>Filter Pack:</p> <p>Material <u>Colorado Sand</u></p> <p>Size <u>12/20</u></p>	<p><u>silt & gravel</u></p> <hr/> <p><u>0</u> FT - <u>25</u> FT</p> <p><u>sand & gravel</u></p> <hr/> <p><u>25</u> FT - <u>28</u> FT</p> <p><u>silt & gravel</u></p> <hr/> <p><u>28</u> FT - <u>36.5</u> FT</p> <p>Received 28 Department of Ecology FEB 22 2021 Water Resources Program NWRO</p> <hr/> <p>_____ FT - _____ FT</p>
--	---	--

The Department of Ecology does NOT warrant the Data and/or information on this well report.

Resource Protection Well Report

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

Type of Work:

- Construction
 Decommission ⇒ Original NOI No. _____

Ecology Well ID Tag No. BMR863

Site Well Name MW-2

Consulting Firm _____

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

If yes, what was the variance for? _____

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) Swanson, Eric

Driller/Engineer/Trainee Signature [Signature]

License No. 3188

Company Name Holocene Drilling Inc.

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. RE20575

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 South Park Royalty LLC

Well Street Address 8601 Dallas Ave S

City Seattle County King

Tax Parcel No. _____

Location (see instructions): WWM or EWM

SW ¼-¼ NW ¼, Section 33 Town 24 Range 4

Latitude (Example: 47.12345) _____

Longitude (Example: -120.12345) _____

(WGS 84 Coordinate System)

Borehole diameter 8 inches Casing diameter 2 inches

Static water level _____ ft below top of casing Date _____

Above-ground completion with bollards Flush monument

Stick-up of top of well casing _____ ft above ground surface

Start Date 1-22-21 Completed Date 1-22-21

Construction Design

Well Data

Driller's Log

<p>Vault</p> <p><u>0</u> FT</p> <p>to</p> <p><u>3</u> FT</p> <p>Seal</p> <p><u>3</u> FT</p> <p>to</p> <p><u>6</u> FT</p> <p>Filter Pack</p> <p><u>6</u> FT</p> <p>to</p> <p><u>18</u> FT</p>		<p>Casing Diameter <u>2"</u></p> <p>Casing Material <u>PVC</u></p> <p><input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Glued</p> <p>Well Seal Material <u>Bent chips</u></p> <p>Borehole Diameter : <u>8</u> From <u>0</u> to <u>21.5</u></p> <p>From _____ to _____</p> <p>Screen : Material <u>2" PVC</u></p> <p>From <u>8</u> to <u>18</u></p> <p>Slot Size <u>10</u></p> <p>Filter Pack : Material <u>Colorado Sand</u></p> <p>Size <u>12/20</u></p>	<p><u>sand</u></p> <p><u>0</u> FT - <u>21.5</u> FT</p> <p>_____ FT - _____ FT</p> <p>_____ FT - _____ FT</p> <p>_____ FT - _____ FT</p> <p>_____ FT - _____ FT</p> <p>Received Department of Ecology <u>FEB 22 2021</u> Water Resources Program NWRO</p>
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Appendix D

Contaminated Soil and Recycled Materials Trip and Disposal Tickets

	Contaminated Soil	Concrete	Metal	Brush	Asphalt	Import - Gravel Borrow
8/16/2022				29.96		
8/17/2022				29.75		
8/19/2022		7.61			16.84	
8/22/2022		58.3				
8/23/2022		106.33				
8/24/2022		28.6				
8/24/2022		103.02				
8/25/2022		48.52				
9/2/2022					5.98	
9/2/2022	154.65					
9/8/2022			3.33			
9/9/2022	66.59					
9/12/2022						47.03
9/12/2022	42.69					
9/13/2022						91.96
9/14/2022						57.76
11/23/2022		3.81				
11/23/2022						89.83
Totals	263.93	356.19	3.33	59.71	22.82	286.58

Disposal/Import Location
Waste Man.
Waste Man.
Rainer Wood
Rainer Wood
Rainer Wood
Rainer Wood
Rainer Wood
Rainer Wood
Rainer Wood
Waste Man.
Seattle Iron & Metal
Waste Man.
Elk Heights
Waste Man.
Elk Heights
Elk Heights
Elk Heights
Rainier Wood
Elk Heights



Requested Facility: Columbia Ridge Landfill, Duwamish Reload Facility
Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: Padraic Slattery
2. Generator Site Address: 8661 Dallas Ave S
3. County: King
4. Contact Name: Padraic Slattery
5. Email: padraic@slatteryproperties.com
6. Phone: (206) 484-3874
8. Generator EPA ID: N/A
9. State ID: N/A

C. MATERIAL INFORMATION

- 1. Common Name: Diesel Fuel/Fuel Oil Contaminated Soil (LF02)
Describe Process(es) Generating Material: See Attached
Soil contaminated with waste used oil, diesel fuel and/or fuel oil from a product spill, associated used oil recycling center site. We are calling this diesel and used oil contaminated because it's coming from Basin Oil, a use oil
2. Material Composition and Contaminants: See Attached
Table with 2 columns: Contaminant, Percentage
3. State Waste Codes: N/A
4. Color: Varies, primarily brown, dark brown and black
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Strong Odor: No
9. Flash Point: <140°F, 140°-199°F, >=200°F

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached: Yes
Please identify applicable samples and/or lab reports:
two soil borings from the center of the site, samples analyzed. We are calling this diesel and used oil contaminated because it's coming from Basin Oil, a use oil recycling center.
2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided.

I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Heather Brothers Date: 08/09/2022
Title: Ops mgr
Company: Rivers Edge

B. BILLING INFORMATION

SAME AS GENERATOR

- 1. Billing Name: Rivers Edge Environmental Services, Inc
2. Billing Address: 17115 SE 270th Place, Suite 106
3. Contact Name: Demi Schmidt
4. Email: accounting@rivers.city
5. Phone: (425) 584-7089
7. WM Hauled? Yes
8. P.O. Number: 22-145
9. Payment Method: Credit Account

D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste? Yes
2. State Hazardous Waste? Yes
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes
4. Contains Underlying Hazardous Constituents? Yes
5. From an industry regulated under Benzene NESHAP? Yes
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes
7. CERCLA or State-mandated clean-up? Yes
8. NRC or State-regulated radioactive or NORM waste? Yes
9. Contains PCBs? Yes
10. Regulated and/or Untreated Medical/Infectious Waste? Yes
11. Contains Asbestos? Yes

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event
2. Estimated Quantity/Unit of Measure: 500 Tons
3. Container Type and Size:
4. USDOT Proper Shipping Name: N/A

Certification Signature

Handwritten signature: Heather Brothers
4db52a5c8f...



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: 138352OR

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

recycling center.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a “Yes” response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

--

b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No

c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No

d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? Yes No

→ If Yes, please check **one** of the following:

Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))

Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: _____

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:

Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____

Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

--

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. Yes No

b. Does this material contain benzene? Yes No

1. If yes, what is the flow weighted average concentration? _____ ppmw

c. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1–9.99 Mg ≥10 Mg

d. Is this waste soil from a remediation? Yes No

1. If yes, what is the benzene concentration in remediation waste? _____ ppmw

e. Does the waste contain >10% water/moisture? Yes No

f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No

g. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No

→ If yes, specify exemption: _____

h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A “Determination of Acceptability” may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7709

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Dick Boat
 Date: 8/16/22 Truck#: 32
TRAVEL TIME
 Begin: 5:00 End: 12:30
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 58203
 Lunch Down: _____ Begin Mileage: 58057
 Fuel: _____ Total Miles: 146
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: BASIN OIL
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 4:30 Lunch Time: Ø
 Stop Time: 12:30 Down Time: Ø
 Total Time: 8
 Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
TT	160 Exc	Firgrove	5:35	6:20	22-145	7:20	7:30		
TT	CDL	22-145	9:30	10:22	WM Rail yard	10:40	11:30		
Any on the job injury? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Driver's Signature <u>Dick Boat</u>									Total Loads <u>2</u>

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys.
 WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.
 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



Columbia Ridge Landfill and Recycling Center
 a subsidiary of Waste Management
 18177 Cedar Springs Lane
 Arlington, Oregon 97812-6512
 (541) 454-2030

Bill Of Lading

Date scheduled for pickup 8/16/22

Time scheduled for pickup _____

Generator Name and Loading Address

Rivers Edge
12430 SE 708th Kent

Contact Person: Paul Kemp

Telephone Number: 706-396-0271

Waste Profile # RIV 0067

Waste Type

CDL

Contaminated Soil

Asbestos

Other: _____

Acknowledgement of Loading:

Company Name: Rivers Edge Date: 8/10/22

Signature: [Signature] Name: Rick Bott

Generator's Authorized Representative

Please Print

Deliver to:

Union Pacific Seattle Intermodal Facility (ARGO Yard)
 402 South Dawson Street
 Seattle, Washington 98108
 Phone (206) 764-1541 or Night (206) 764-1438

Disposal Facility:

Columbia Ridge Landfill and Recycling Center
 18177 Cedar Springs Lane
 Arlington, Oregon 97812-6512
 Phone # (541) 454-2030

Container Inspection Upon Pickup:

	Yes	No
Tarp in good serviceable condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Container is in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No free standing water	<input type="checkbox"/>	<input type="checkbox"/>
Container is empty and clean	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Circle ONE: DROP ONLY PICK UP ONLY SWAP WTL

Loading Start Time _____ Box # In 483096 Liners 0 1 2 Unloading Start Time _____

End Time _____ Box # Out _____ Liners 0 1 2 End Time _____

Transporter Name: Rivers Edge Truck/Chassis # 32/7269

Driver Name Rick Bott Driver Signature [Signature]

Remarks: 7R155



BUILDING AMERICA®

91920

$$\begin{array}{r} 32 \\ \hline 59 \end{array}$$

483096

32.7269

RIV. 0067

7K155

DRIVER

UNION PACIFIC RAILROAD

FORM 23144L
(REV. 05-11)



J1 TRAILER USE AGREEMENT, EIA INTERCHANGE REPORT, AND INSPECTION REPORT

REF ID	SEATTLE, WA	GILMAN, OR	RAMP POINT	08/16/2022 10:53
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WAYBILL NO.	08/16/22	PLAN	COMMODITY	WASTEMANAGEN	PVTE 3269	RIV0067
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WEIGHT	59920 LBS	TYPE	SPECIAL CONDITIONS	PERSON NOTIFIED	NOTIFICATION TIME	DELIVERY REQUESTED	SUPV.
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CUSTOMER			EVENTS	TIME	DRAYAGE	CARRIER
ADDRESS			TRAILER GROUNDED			
CITY			DEPARTURE/ DELIVERY			
STATE			ARRIVAL/ RECEIPT			
ZIP CODE						

PLAN 2 DATA

SERVICE REQUIRED	UNLOADING WEIGHT	ACTUAL PLACEMENT	TRAILER RELEASE
<input type="checkbox"/> DOCK <input type="checkbox"/> DROP <input type="checkbox"/> STAY			

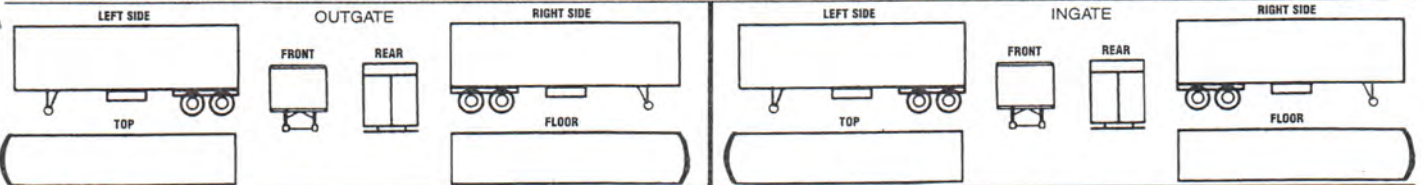
DRIVERS LICENSE/STATE LICENSED:

NDL7R155163B WA

I declare contents of this trailer/container does not contain Hazardous material.

DRIVER

DEFINE AND MARK CLEARLY ALL DAMAGE OR DEFICIENCIES FOUND BY INSPECTION SYMBOL "B" = BENT - "C" = CUT - "H" = HOLE



EXPLAIN DEFECTS

EXPLAIN DEFECTS

CLEARANCE LIGHTS	TARPS	FLAPS	CLEARANCE LIGHTS	TARPS	FLAPS
REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION	REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION
SIDE MARKERS	LANDING GEAR	BEGINNING HUB READING	SIDE MARKERS	LANDING GEAR	ENDING HUB READING
WIRING	UNDER CARRIAGE	LICENSE NUMBER	WIRING	UNDER CARRIAGE	LICENSE NUMBER
SAE-ATA 7 WAY PLUG	WHEEL LUGS		SAE-ATA 7 WAY PLUG	WHEEL LUGS	

DRIVERS NAME
WMS9 RICH V BOTT

DRIVERS NAME

POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION	POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION
T R O FRONT			L O FRONT			T R O FRONT			L O FRONT		
T R I FRONT			L I FRONT			T R I FRONT			L I FRONT		
T R O REAR			L O REAR			T R O REAR			L O REAR		
T R I REAR			L I REAR			T R I REAR			L I REAR		
S P A R E			S P A R E			S P A R E			S P A R E		

THERMO SETTING	OUTSIDE TEMP	INSIDE TEMP	FUEL READING	HOUR METER READING	REEFER UNIT OPERATING <input type="checkbox"/> YES <input type="checkbox"/> NO
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INSPECTED AND ALL DEFICIENCIES AND EXCEPTIONS ARE NOTED ABOVE (SIGN BELOW)

USER/MOTOR CARRIER	DATE	USER/MOTOR CARRIER	DATE
	TIME		TIME
RAILROAD COMPANY	PLACE	RAILROAD COMPANY	PLACE

USER AND RAILROAD COMPANY UNDERSTAND AND AGREE THAT THE TERMS AND CONDITIONS OF THIS AGREEMENT ARE SET FORTH ON THE REVERSE OF THIS SHEET AND ARE BINDING ON BOTH PARTIES HERETO. CHARGES TO APPLY FOR USE OF TRAILER SHALL BE AS DESIGNATED IN APPLICABLE TARIFFS OR CIRCULARS, INCLUDING SUPPLEMENTS THERETO OR REISSUES THEREOF OR CHARGES AS SET FORTH IN PROPERLY EXECUTED INTERCHANGE AGREEMENT.

UNION PACIFIC RAILROAD

FORM 23144L (REV. 05-11)



J1 TRAILER USE AGREEMENT, EIA INTERCHANGE REPORT, AND INSPECTION REPORT

WAGON NO. 493674	OWNER ID GILLEAN, OR	SEASON SEASIDE, WA	RAMP POINT	DATE/TIME 08/16/2022 11:28
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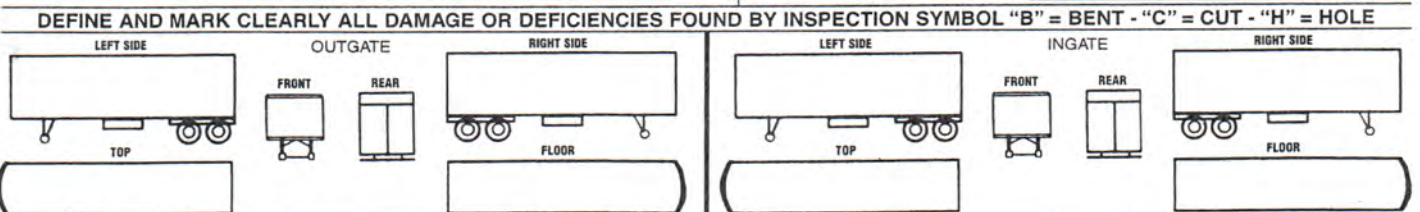
INVOICE NO. 645769	ISSUE DATE 08/12/22	PLAN	COMMODITY CHEMNANAG	CLASS PVTR 32269	SEAL NUMBER n
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L/E E	WEIGHT 9500 LBS	TYPE	SPECIAL CONDITIONS	PERSON NOTIFIED	NOTIFICATION TIME	DELIVERY REQUESTED	SUPV.
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WASTE MANAGEMENT	CUSTOMER	EVENTS	TIME	DRAYAGE	CARRIER
	ADDRESS	TRAILER GROUNDED			
	CITY	DEPARTURE/ DELIVERY			
	STATE	ARRIVAL/ RECEIPT			

PLAN 2 DATA			
SERVICE REQUIRED	UNLOADING WEIGHT	ACTUAL PLACEMENT	TRAILER RELEASE
<input type="checkbox"/> DOCK	<input type="checkbox"/> DROP	<input type="checkbox"/> STAY	

DRIVERS LICENSE/STATE LICENSED:	I declare contents of this trailer/container does not contain Hazardous material.
NDL7R155163B WA	DRIVER



EXPLAIN DEFECTS	EXPLAIN DEFECTS

CLEARANCE LIGHTS	TARPS	FLAPS	CLEARANCE LIGHTS	TARPS	FLAPS
REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION	REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION
SIDE MARKERS	LANDING GEAR	BEGINNING HUB READING	SIDE MARKERS	LANDING GEAR	ENDING HUB READING
WIRING	UNDER CARRIAGE	LICENSE NUMBER	WIRING	UNDER CARRIAGE	LICENSE NUMBER
SAE-ATA 7 WAY PLUG	WHEEL LUGS		SAE-ATA 7 WAY PLUG	WHEEL LUGS	

DRIVERS NAME	DRIVERS NAME
WMS9 RICH V BOTT	

POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION	POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION
T I R E S	RO FRONT		LO FRONT			T I R E S	RO FRONT		LO FRONT		
	RI FRONT		LI FRONT				RI FRONT		LI FRONT		
	RO REAR		LO REAR				RO REAR		LO REAR		
	RI REAR		LI REAR				RI REAR		LI REAR		
	SPARE		SPARE				SPARE		SPARE		

THERMO SETTING	OUTSIDE TEMP	INSIDE TEMP	FUEL READING	HOUR METER READING	REEFER UNIT OPERATING <input type="checkbox"/> YES <input type="checkbox"/> NO
----------------	--------------	-------------	--------------	--------------------	--

INSPECTED AND ALL DEFICIENCIES AND EXCEPTIONS ARE NOTED ABOVE (SIGN BELOW)

USER/MOTOR CARRIER	DATE	USER/MOTOR CARRIER	DATE
	TIME		TIME
RAILROAD COMPANY	PLACE	RAILROAD COMPANY	PLACE

USER AND RAILROAD COMPANY UNDERSTAND AND AGREE THAT THE TERMS AND CONDITIONS OF THIS AGREEMENT ARE SET FORTH ON THE REVERSE OF THIS SHEET AND ARE BINDING ON BOTH PARTIES HERETO. CHARGES TO APPLY FOR USE OF TRAILER SHALL BE AS DESIGNATED IN APPLICABLE TARIFFS OR CIRCULARS, INCLUDING SUPPLEMENTS THERETO OR REISSUES THEREOF OR CHARGES AS SET FORTH IN PROPERLY EXECUTED INTERCHANGE AGREEMENT.



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7710

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Click Bott
 Date: 8/17/22 Truck#: 32
TRAVEL TIME
 Begin: 6:00 End: 11:15
 Driver Total Hours: 5.25
 Total Travel: _____ Mileage: 58263
 Lunch Down: _____ Begin Mileage: 58203
 Fuel: _____ Total Miles: 60
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: DEES
 PO/Job: _____
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 6:00 Lunch Time: /
 Stop Time: 11:15 Down Time: /
 Total Time: 5.25
 Reason for Delay (Standby)

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
TT	CDL	22-145	6:40	8:57	WM Rail yard	9:10	10:00		

any on the job injury? Yes No Driver's Signature: [Signature] Total Loads: 1

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. for enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc.'s representatives and attorneys.
 WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.
 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal injury, shall not exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Ship Signature: _____



Columbia Ridge Landfill and Recycling Center
 a subsidiary of Waste Management
 18177 Cedar Springs Lane
 Arlington, Oregon 97812-6512
 (541) 454-2030

Bill Of Lading

Date scheduled for pickup 8/17/22

Time scheduled for pickup _____

Generator Name and Loading Address

Rivis Edge
8661 Dallas Ave S Seattle

Contact Person: Paul Kemp

Telephone Number: 206-346-0771

Waste Profile # RIV0070

Waste Type

- CDL
- Contaminated Soil
- Asbestos
- Other: _____

Acknowledgement of Loading:

Company Name: Rivis Edge

Date: 8/17/22

Signature: [Signature]

Name: Dick Bott
Please Print

Deliver to:
 Union Pacific Seattle Intermodal Facility (ARGO Yard)
 402 South Dawson Street
 Seattle, Washington 98108
 Phone (206) 764-1541 or Night (206) 764-1438

Disposal Facility:
 Columbia Ridge Landfill and Recycling Center
 18177 Cedar Springs Lane
 Arlington, Oregon 97812-6512
 Phone # (541) 454-2030

Container Inspection Upon Pickup:

- | | | |
|------------------------------------|-------------------------------------|--------------------------|
| | Yes | No |
| Tarp in good serviceable condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Container is in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| No free standing water | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Container is empty and clean | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Circle ONE: **DROP ONLY** **PICK UP ONLY** **SWAP** **WTL**

Loading		Unloading	
Start Time _____	Box # In <u>483674</u>	Liners <u>0</u> 1 2	Start Time _____
End Time _____	Box # Out _____	Liners 0 1 2	End Time _____

Transporter Name: Rivis Edge Truck/Chassis # 32/7269

Driver Name Dick Bott Driver Signature [Signature]
Please Print

Remarks: 72155



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91500

32
59

483674

FR155

DRIVER

UNION PACIFIC RAILROAD

FORM 23144L (REV. 05-11)



J1 TRAILER USE AGREEMENT, EIA INTERCHANGE REPORT, AND INSPECTION REPORT

WHEEL ID	GILLMAN, OR	SEATTLE, WA	RAMP POINT	08/17/2022 09:56
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WHEEL NO.	08/15/22	PLAN	COMMODITY	CHEM/WASHANAG	PVTZ 32269	N	SEAL NUMBER
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L/E	WEIGHT	TYPE	SPECIAL CONDITIONS	PERSON NOTIFIED	NOTIFICATION TIME	DELIVERY REQUESTED	SUPV.
E	9500 LBS						

WASTE MANAGEMENT CUSTOMER

ADDRESS

CITY STATE ZIP CODE

EVENTS	TIME	DRAYAGE	CARRIER
TRAILER GROUNDED			
DEPARTURE/DELIVERY			
ARRIVAL/RECEIPT			

PLAN 2 DATA

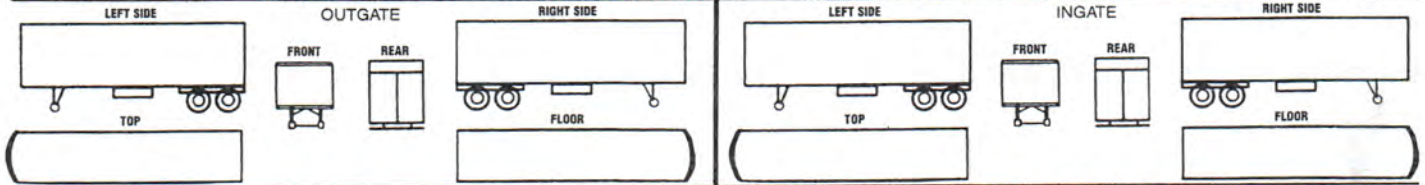
SERVICE REQUIRED	UNLOADING WEIGHT	ACTUAL PLACEMENT	TRAILER RELEASE
<input type="checkbox"/> DOCK <input type="checkbox"/> DROP <input type="checkbox"/> STAY			

DRIVERS LICENSE/STATE LICENSED: **WDL7R155163B WA**

I declare contents of this trailer/container does not contain Hazardous material.

DRIVER _____

DEFINE AND MARK CLEARLY ALL DAMAGE OR DEFICIENCIES FOUND BY INSPECTION SYMBOL "B" = BENT - "C" = CUT - "H" = HOLE



EXPLAIN DEFECTS _____

EXPLAIN DEFECTS _____

CLEARANCE LIGHTS	TARPS	FLAPS	CLEARANCE LIGHTS	TARPS	FLAPS
REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION	REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION
SIDE MARKERS	LANDING GEAR	BEGINNING HUB READING	SIDE MARKERS	LANDING GEAR	ENDING HUB READING
WIRING	UNDER CARRIAGE	LICENSE NUMBER	WIRING	UNDER CARRIAGE	LICENSE NUMBER
SAE-ATA 7 WAY PLUG	WHEEL LUGS		SAE-ATA 7 WAY PLUG	WHEEL LUGS	

DRIVERS NAME **WMS9 RICH V BOTT**

DRIVERS NAME _____

POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION	POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION
T R I A X L E S	RO FRONT		LO FRONT			RO FRONT			LO FRONT		
	RI FRONT		LI FRONT			RI FRONT			LI FRONT		
	RO REAR		LO REAR			RO REAR			LO REAR		
	RI REAR		LI REAR			RI REAR			LI REAR		
	SPARE		SPARE			SPARE			SPARE		

THERMO SETTING	OUTSIDE TEMP	INSIDE TEMP	FUEL READING	HOUR METER READING	REEFER UNIT OPERATING <input type="checkbox"/> YES <input type="checkbox"/> NO
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INSPECTED AND ALL DEFICIENCIES AND EXCEPTIONS ARE NOTED ABOVE (SIGN BELOW)

USER/MOTOR CARRIER	DATE	USER/MOTOR CARRIER	DATE
RAILROAD COMPANY	TIME	RAILROAD COMPANY	TIME
	PLACE		PLACE

USER AND RAILROAD COMPANY UNDERSTAND AND AGREE THAT THE TERMS AND CONDITIONS OF THIS AGREEMENT ARE SET FORTH ON THE REVERSE OF THIS SHEET AND ARE BINDING ON BOTH PARTIES HERETO. CHARGES TO APPLY FOR USE OF TRAILER SHALL BE AS DESIGNATED IN APPLICABLE TARIFFS OR CIRCULARS, INCLUDING SUPPLEMENTS THERETO OR REISSUES THEREOF OR CHARGES AS SET FORTH IN PROPERLY EXECUTED INTERCHANGE AGREEMENT.

UNION PACIFIC RAILROAD

FORM 23144L (REV. 05-11)



J1 TRAILER USE AGREEMENT, EIA INTERCHANGE REPORT, AND INSPECTION REPORT

REF ID: WGTU 493674	ORIGIN: SEATTLE, WA	DESTINATION: GILLEAN, OR	RAMP POINT	DATE/TIME: 08/17/2022 09:33
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WAYBILL NO. 0	WAYBILL DATE: 08/17/22	PLAN	COMMODITY: WASTE/MANAGEN	SHIPPER: PVT 32269	TRAILER NUMBER: RIV0070
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L/E: L	WEIGHT: 59500 LBS	TYPE	SPECIAL CONDITIONS	PERSON NOTIFIED	NOTIFICATION TIME	DELIVERY REQUESTED	SUPV.
---------------	--------------------------	------	--------------------	-----------------	-------------------	--------------------	-------

CUSTOMER			EVENTS		TIME	DRAYAGE	CARRIER
ADDRESS			TRAILER GROUNDED				
CITY			DEPARTURE/ DELIVERY				
STATE	ZIP CODE		ARRIVAL/ RECEIPT				

PLAN 2 DATA

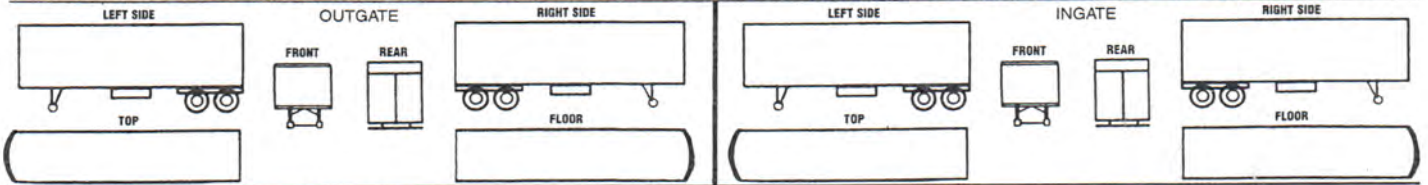
SERVICE REQUIRED	UNLOADING WEIGHT	ACTUAL PLACEMENT	TRAILER RELEASE
<input type="checkbox"/> DOCK <input type="checkbox"/> DROP <input type="checkbox"/> STAY			

DRIVERS LICENSE/STATE LICENSED:

WDL7R155163B NA

I declare contents of this trailer/container does not contain Hazardous material.
DRIVER _____

DEFINE AND MARK CLEARLY ALL DAMAGE OR DEFICIENCIES FOUND BY INSPECTION SYMBOL "B" = BENT - "C" = CUT - "H" = HOLE



EXPLAIN DEFECTS

EXPLAIN DEFECTS

CLEARANCE LIGHTS	TARPS	FLAPS	CLEARANCE LIGHTS	TARPS	FLAPS
REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION	REFLECTORS	BRAKE DEFECTS	REAR END PROTECTION
SIDE MARKERS	LANDING GEAR	BEGINNING HUB READING	SIDE MARKERS	LANDING GEAR	ENDING HUB READING
WIRING	UNDER CARRIAGE	LICENSE NUMBER	WIRING	UNDER CARRIAGE	LICENSE NUMBER
SAE-ATA 7 WAY PLUG	WHEEL LUGS		SAE-ATA 7 WAY PLUG	WHEEL LUGS	

DRIVERS NAME

WMS9 RICH V BOTT

DRIVERS NAME

POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION	POSITION	BRAND NO.	CONDITION	POSITION	BRAND	CONDITION
T R O F R O N T			L O F R O N T			T R O F R O N T			L O F R O N T		
R I F R O N T			L I F R O N T			R I F R O N T			L I F R O N T		
R O R E A R			L O R E A R			R O R E A R			L O R E A R		
R I R E A R			L I R E A R			R I R E A R			L I R E A R		
S P A R E			S P A R E			S P A R E			S P A R E		

THERMO SETTING	OUTSIDE TEMP	INSIDE TEMP	FUEL READING	HOUR METER READING	REEFER UNIT OPERATING <input type="checkbox"/> YES <input type="checkbox"/> NO
----------------	--------------	-------------	--------------	--------------------	---

INSPECTED AND ALL DEFICIENCIES AND EXCEPTIONS ARE NOTED ABOVE (SIGN BELOW)

USER/MOTOR CARRIER	DATE	USER/MOTOR CARRIER	DATE
	TIME		TIME
RAILROAD COMPANY	PLACE	RAILROAD COMPANY	PLACE

USER AND RAILROAD COMPANY UNDERSTAND AND AGREE THAT THE TERMS AND CONDITIONS OF THIS AGREEMENT ARE SET FORTH ON THE REVERSE OF THIS SHEET AND ARE BINDING ON BOTH PARTIES HERETO. CHARGES TO APPLY FOR USE OF TRAILER SHALL BE AS DESIGNATED IN APPLICABLE TARIFFS OR CIRCULARS, INCLUDING SUPPLEMENTS THERETO OR REISSUES THEREOF OR CHARGES AS SET FORTH IN PROPERLY EXECUTED INTERCHANGE AGREEMENT.



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7632

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnston
 Date: Aug 19 Truck#: 23
TRAVEL TIME
 Begin: 1030 End: 430
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 700066
 Lunch Down: _____ Begin Mileage: 699970
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: 8661 Dallas Ave S Seattle
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 1030 Lunch Time: _____
 Stop Time: 430 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
<u>Sold</u>	<u>MT</u>	<u>YARD</u>		<u>105</u>	<u>8661</u>	<u>1158</u>	<u>1220</u>		
<u>Sold</u>	<u>Beelon</u>	<u>8661</u>	<u>1158</u>	<u>1220</u>	<u>Rainier</u>	<u>109</u>	<u>120</u>	<u>425 29</u>	<u>14.9</u>
<u>T/T</u>	<u>TILT</u>	<u>YARD</u>		<u>120</u>	<u>22-145</u>	<u>204</u>	<u>247</u>		
<u>T/T</u>	<u>160 EX</u>	<u>22-145</u>		<u>247</u>	<u>YARD</u>	<u>4104</u>	<u>30</u>	<u>425 48</u>	<u>7.6</u>

Any on the job injury? Yes No Driver's Signature Bruce S Johnston Total Loads 2

By signing this document, I certify that all of the above information is true and accurate. Signature on the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys. WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042
425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/19/2022
Time In
Time Out 04:10 PM

Ticket Number 42548
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23
PO No. 22-145
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 45120
Tare 29900 Keyed
Net 15220
Quantity 7.61 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/19/2022

Time In

Time Out 12:51 PM

Ticket Number 42529
Customer RIVERS EDGE ENVIRONMENTAL
Truck No.
PO No. 22-145
Hauler
Product TPS Asphalt Per Ton
Notes

Gross 58080 Keyed
Tare 29900 Keyed
Net 28180
Quantity 14.09 Tons
Terms ACCOUNT

Sam Schmitten

Driver Signature

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/19/2022

Time In

Time Out 12:51 PM

Ticket Number 42529
Customer RIVERS EDGE ENVIRONMENTAL
Truck No.
PO No. 22-145
Hauler
Product TPS Asphalt Per Ton
Notes

Gross 58080 Keyed
Tare 29900 Keyed
Net 28180
Quantity 2.75 Cubic Yard
Terms ACCOUNT

Driver Signature

Sam Schmitten

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7634

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnston
 Date: Aug 22-22 Truck#: 23/TILT
TRAVEL TIME
 Begin: 0530 End: 500
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 700322
 Lunch Down: _____ Begin Mileage: 700066
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: _____
 Bill By Ton: Yard: Job#: 22 145
 Start Time: 0530 Lunch Time: _____
 Stop Time: 500 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby) _____

T&T/ SOID	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ	
T/T	1600 CASE	YARD	0530	0600	22-145	0645	0712			
T/T	MT	22-145	0712	0842	YARD	0754	0842			
T/T	160 VOLVO	YARD		0842	22-145	0921	0940			
T/T	RECON	22-145		0940	RAINIER	1028	1052	42610	15.6	
Solo	"	"	"	1126	1144	"	1226	1237	42622	15.5
Solo	"	"	"	115	158	"	237	242	42638	12.0
Solo	"	"	"	317	345	"	486	500		

Any on the job injury? Yes No Driver's Signature: Bruce S Johnston Total Loads: 6

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys.
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Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/22/2022
Time In 04:36 PM
Time Out 04:37 PM

Ticket Number 42647
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23
PO No. ~~22-144~~
Hauler 22-145
Product TPS Concrete 2'- Per Ton
Notes

Gross 59940
Tare 29900 Keyed
Net 30040
Quantity 15.02 Tons
Terms ACCOUNT

Driver Signature

HANNA FURNEY

Weighmaster Signature



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042
425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/22/2022
Time In 02:37 PM
Time Out 02:38 PM

Ticket Number 42638
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23
PO No. 22-145
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 54040
Tare 29900 Keyed
Net 24140
Quantity 12.07 Tons
Terms ACCOUNT

Driver Signature

HANNA FURNEY

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/22/2022

Time In 12:28 PM

Time Out 12:30 PM

Ticket Number 42622

Customer RIVERS EDGE ENVIRONMENTAL

Truck No.

PO No.

Hauler

Product TPS Concrete 2'- Per Ton

Notes

Gross 61080 Keyed

Tare 29900 Keyed

Net 31180

Quantity 15.59 Tons

Terms ACCOUNT

Driver Signature

HANNA FURNEY

Weighmaster Signature



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042
425-222-0008

Email: RWAdmin@rainierwood.com

Date Out 08/22/2022
Time In 10:42 AM
Time Out 10:43 AM

Ticket Number 42610
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23
PO No. 22-145
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 61140
Tare 29900 Keyed
Net 31240
Quantity 15.62 Tons
Terms ACCOUNT

Driver Signature

HANNA FURNEY

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7635

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnston
 Date: AUG 23 Truck#: 23/24
TRAVEL TIME
 Begin: 0530 End: 430
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 700544
 Lunch Down: _____ Begin Mileage: 700335
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: _____
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 0530 Lunch Time: _____
 Stop Time: 430 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby)

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
T/T	Mt	YARD	0530	0600	22-145	433	750		
T/T	RecCon	22-145		750	Rainier	838	845	42656	23.37
T/T	"	"	937	1015	"	1048	1150	42664	24.77
T/T	"	"	1143	1212	"	113	130	42683	29.2
T/T	"	"	231	306	"	306			
						400	430	42701	28.3

Any on the job injury? Yes No Driver's Signature: Bruce Johnston Total Loads: 3

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 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC
17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/23/2022

Time In

Time Out 04:00 PM

Ticket Number 42701
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23/24
PO No. 22-145 (PAUL JOB)
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 101020
Tare 43140 Keyed
Net 57880
Quantity 28.94 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWAdmin@rainierwood.com

Date Out 08/23/2022

Time In 01:13 PM

Time Out 01:14 PM

Ticket Number 42683
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23/24
PO No. 22-145 (PAUL JOB)
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 101600
Tare 43140 Keyed
Net 58460
Quantity 29.23 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/23/2022

Time In

Time Out 10:49 AM

Ticket Number 42664
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23/24
PO No. 22-145 (PAUL JOB)
Hauler
Product TPS Concrete 2' + W Rebar Per Ton
Notes

Gross 92680 Keyed
Tare 43140 Keyed
Net 49540
Quantity 24.77 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/23/2022

Time In

Time Out 08:38 AM

Ticket Number 42656
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23/24
PO No. 22-145
Hauler
Product TPS Concrete 2' + W Rebar Per Ton
Notes

Gross 89920 Keyed
Tare 43140 Keyed
Net 46780
Quantity 23.39 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7637

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnson
 Date: AUG 24 Truck#: 73/24
TRAVEL TIME
 Begin: 1130 End: 300
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 700708
 Lunch Down: _____ Begin Mileage: 200654
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: _____
 Bill By Ton: Yard: Job#: 24/45
 Start Time: 1130 Lunch Time: _____
 Stop Time: 300 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby) 22-145

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
<u>TH</u>	<u>MT</u>	<u>RAINIER</u>		<u>1142</u>	<u>21-45</u>	<u>1227</u>	<u>157</u>		
<u>TT</u>	<u>rec Co</u>	<u>21-45</u>		<u>157</u>	<u>Rainier</u>	<u>300</u>		<u>42750</u>	<u>28</u>

Any on the job injury? Yes No
 Driver's Signature: Bruce S Johnson
 Total Loads: 1

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 WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.
 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/24/2022

Time In

Time Out 02:58 PM

Ticket Number 42750
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23/24
PO No. 21-148
Hauler
Product TPS Concrete 2'- Per Ton
Notes

Gross 100340
Tare 43140 Keyed
Net 57200
Quantity 28.60 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7714

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Dick Bott
Date: 8/24/22 Truck#: 22
TRAVEL TIME
Begin: 6:15 End: 4:15
Driver Total Hours: 10
Total Travel: _____ Mileage: 58786
Lunch Down: _____ Begin Mileage: 58575
Fuel: _____ Total Miles: 2 11
Pre-Trip Pre-Trip DVIR #: _____
Out-of-State Mileage: _____ State of Travel: _____
In: _____ Out: _____
Trips: _____ Total Miles: _____

Contractor Name: _____
PO/Job: _____
Bill By Ton: Yard: Job#: 22-145
Start Time: 6:00 Lunch Time: Ø
Stop Time: 4:15 Down Time: Ø
Total Time: 10.25
Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
11	Concrete	22-145	6:58	8:20	Rainier	9:10	9:20	42713	26
11	"	"	10:05	10:37	"	11:23	11:45	42729	26
11	"	"	12:27	12:55	"	1:38	1:45	42747	25
11	"	"	2:22	3:00	"	3:57		42755	27

Any on the job injury? Yes No Driver's Signature: [Signature] Total Loads: 4

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys. WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/24/2022

Time In

Time Out 03:51 PM

Ticket Number 42755
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete 2' + W Rebar Per Ton
Notes

Gross 98660
Tare 44480 Keyed
Net 54180
Quantity 27.09 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/24/2022

Time In

Time Out 01:38 PM

Ticket Number 42747
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete 2'- W Rebar Per Ton
Notes

Gross 93720 Keyed
Tare 44480 Keyed
Net 49240
Quantity 24.62 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/24/2022

Time In

Time Out 11:23 AM

Ticket Number 42729
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete 2'- W Rebar Per Ton
Notes

Gross 95700 Keyed
Tare 44480 Keyed
Net 51220
Quantity 25.61 Tons
Terms ACCOUNT

A handwritten signature in black ink, appearing to read "Sam Schmitt", written over a horizontal line.

Driver Signature

Sam Schmitt

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/24/2022

Time In

Time Out 09:09 AM

Ticket Number 42713
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete 2'- W Rebar Per Ton
Notes

Gross 95880 Keyed
Tare 44480 Keyed
Net 51400
Quantity 25.70 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7715

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Rick Boat
 Date: 8/25/22 Truck#: 32

TRAVEL TIME
 Begin: 6:15 End: 4:30
 Driver Total Hours: 10.25
 Total Travel: _____ Mileage: 58943
 Lunch Down: _____ Begin Mileage: 58786
 Fuel: _____ Total Miles: 157
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: _____
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 6:00 Lunch Time: /
 Stop Time: 4:30 Down Time: /
 Total Time: 10.5
 Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
11	Concrete	22-145	6:55	9:15	RAINIER	10:03	10:20	42777	28
11	''	''	11:00	12:43	''	1:25		42804	21
11	160 Enc	''	3:05	3:25	REES	4:22			

Any on the job injury? Yes No Driver's Signature: [Signature] Total Loads: 3

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys.
 WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.
 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/25/2022

Time In

Time Out 01:27 PM

Ticket Number 42804
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete Asphalt Dirt Per Ton *Dirty*
Notes

Gross 86460
Tare 44480 Keyed
Net 41980
Quantity 20.99 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitten

Weighmaster Signature



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com

Date Out 08/25/2022

Time In

Time Out 10:08 AM

Ticket Number 42777
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 32/SD
PO No. 22-145
Hauler
Product TPS Concrete 2'- W Rebar Per Ton
Notes

Gross 99540
Tare 44480 Keyed
Net 55060
Quantity 27.53 Tons
Terms ACCOUNT

Driver Signature

Sam Schmitt

Weighmaster Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7650

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnston
 Date: Sept 2 22 Truck#: 23/717
TRAVEL TIME
 Begin: 0600 End: 430
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 701835
 Lunch Down: _____ Begin Mileage: 701663
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: _____
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 0600 Lunch Time: _____
 Stop Time: 430 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
TK	MT	YARD		630	22-145	710			
Solo	22-145	DIRT		800	7400 8 th AVE	815	830	75151	14.9
Solo	"	"	"	810	"	900	915	75154	13.6
Solo	"	"	"	930	"	950	945	75155	12.7
Solo	"	"	"	1000	"	1041	1046	75159	17.9
Solo	"	"	"	1154	"	1102	1117	75160	18.9
Solo	"	"	"	1127	"	1148	1153	75164	17.3
Solo	"	"	"	1202	"	1122	1131	75165	19.9
Solo	"	"	"	1234	"	1250	1255	75166	18.1
Solo	"	"	"	103	"	145	155	75168	20.89
T&T	REC ASPHALT 160 CASE	22-145	158	254	RAINIER & YARD	413	430	43219	15.9
									TON'S 153.9
									= 1.4
									YARDS 1099

Any on the job injury? Yes No Driver's Signature: Bruce S Johnston Total Loads: 10

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys. WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



RAINIER WOOD RECYCLERS INC

17115 SE 270TH PLACE #106, COVINGTON, WA 98042

425-222-0008

Email: RWAdmin@rainierwood.com

Date Out 09/02/2022

Time In

Time Out 04:17 PM

Ticket Number 43219
Customer RIVERS EDGE ENVIRONMENTAL
Truck No. 23
PO No. 21-145
Hauler
Product TPS Asphalt Per Ton
Notes

Gross	41860
Tare	29900 Keyed
Net	11960
Quantity	5.98 Tons
Terms	ACCOUNT

A handwritten signature in black ink, appearing to read "Sam Schmitt", is written over a horizontal line.

Driver Signature

Sam Schmitt

Weighmaster Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original,
 Ticket# 75168
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 70920 lb
 09/02/2022 13:45:46 Scale 1 kfunk2 Tare 29140 lb
 Out 09/02/2022 13:45:46 kfunk2 Net 41780 lb
 Tons 20.89
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	20.89	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	20.89	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original ,
 Ticket# 75166
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 65440 lb
 09/02/2022 12:48:41 Scale 1 kfunk2 Tare 29140 lb
 Out 09/02/2022 12:48:41 kfunk2 Net 36300 lb
 Tons 18.15
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	18.15	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	18.15	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original,
 Ticket# 75165
 Ph: 206-694-0600

Customer Name RIVERSEDGEEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/02/2022 12:22:07 Scale Operator Inbound Gross 68940 lb
 Out 09/02/2022 12:22:07 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 39800 lb
 Tons 19.90
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	19.90	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	19.90	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature

BJ



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 73164
 Ph: 206-694-0600

Customer Name RIVERSEDGEEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/02/2022 11:48:26 Scale 1 Operator Inbound Gross 63920 lb
 Out 09/02/2022 11:48:26 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 34780 lb
 Tons 17.39
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	17.39	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	17.39	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75160
 Ph: 206-694-0600

Customer Name RIVERSEDGEEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 67060 lb
 09/02/2022 11:12:55 Scale 1 kfunk2 Tare 29140 lb
 Out 09/02/2022 11:12:55 kfunk2 Net 37920 lb
 Tons 18.96
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	18.96	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	18.96	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75159
 Ph: 206-694-0600

Customer Name RIVERSEDGEEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 65100 lb
 09/02/2022 10:41:50 Scale 1 kfunk2 Tare 29140 lb
 Out 09/02/2022 10:41:50 kfunk2 Net 35960 lb
 Tons 17.98
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	17.98	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	17.98	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature

BJ



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75155
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/1383520R
 In Time 09/02/2022 09:37:22 Scale 1 Operator Inbound Gross 54680 lb
 Out 09/02/2022 09:37:22 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 25540 lb
 Tons 12.77
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	12.77	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	12.77	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75154
 Ph: 206-694-0600

Customer Name RIVERSEDGEEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/02/2022 08:56:20 Scale Operator Inbound Gross 56440 lb
 Out 09/02/2022 08:56:20 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 27300 lb
 Tons 13.65
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	13.65	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	13.65	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75151
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/02/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 59060 lb
 09/02/2022 08:15:01 Scale 1 kfunk2 Tare 29140 lb
 Out 09/02/2022 08:15:01 kfunk2 Net 29920 lb
 Tons 14.96
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	14.96	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	14.96	Tons				
4 FUELSUR-FUEL SURCHARGE	100		%				

Total Tax
 Total Ticket

Driver's Signature



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7671

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Kevin Kneeland
 Date: 9-8 Truck#: 18

TRAVEL TIME

Begin: 6:00 End: 4:30

Driver Total Hours: _____

Total Travel: _____ Mileage: 740299

Lunch Down: _____ Begin Mileage: 940205

Fuel: _____ Total Miles: _____

Pre-Trip Pre-Trip DVIR #: _____

Out-of-State Mileage: _____ State of Travel: _____

In: _____ Out: _____

Trips: _____ Total Miles: _____

Contractor Name: R E E S **22-143+**
22-145

PO/Job: _____

Bill By Ton: Yard: Job#: 22-154

Start Time: 6:00 Lunch Time: _____

Stop Time: 4:30 Down Time: _____

Total Time: _____

Reason for Delay (Standby)

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
50/0	dirt	rainier Ave	7:19	10:20	Republic	10:15	11:10	309329	
20/	160 exc	" "	7:00	2:00	South Park Marina	2:27	3:00		
10/0	metal	South Park Marina	3:00	3:00	Seattle Iron	3:15	3:27		

Any on the job injury?
 Yes No

Driver's Signature _____

Total Loads _____

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc.'s representatives and attorneys.
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Authorized Rep Signature:



Certificate of Weight
Issued under authority of City of Seattle Ord. 7.04.580

SEATTLE IRON & METALS CORP.

601 S. Myrtle Street Seattle, WA 98108 206-682-0040

~~Handwritten scribble~~

Weighed For: Rances Edge

Commodity: S Price: ~~Handwritten scribble~~

K.A. Ironworks Inc #47 1404

Date 22-143
~~07 06 22 3:15 PM~~

Ticket # 117455

Gross lbs. 23110 lb

Tare lbs. 16460 lb

Net lbs. 6650 lb

I, the undersigned, certify that the weights indicated hereon are true and correct.

Weighed By: [Signature]
Licensed City Weigher

22-145



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
 Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

7161

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT

Driver Name: Bruce S Johnston
 Date: SEPT 9 Truck#: 23
TRAVEL TIME
 Begin: 1200 End: 500
 Driver Total Hours: _____
 Total Travel: _____ Mileage: 702672
 Lunch Down: _____ Begin Mileage: 702794
 Fuel: _____ Total Miles: _____
 Pre-Trip Pre-Trip DVIR #: _____
 Out-of-State Mileage: _____ State of Travel: _____
 In: _____ Out: _____
 # Trips: _____ Total Miles: _____

Contractor Name: _____
 PO/Job: 8661 Dallas Ave
 Bill By Ton: Yard: Job#: 22-145
 Start Time: 1200 Lunch Time: _____
 Stop Time: 500 Down Time: _____
 Total Time: _____
 Reason for Delay (Standby)

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
Solo	DIRT	22-145	115	122	WASTE MAN	130	135	75409	14.9
Solo	"	"	"	150	"	201	209	75418	17.2
Solo	"	"	"	215	"	230	235	75423	16.2
Solo	"	"	"	241	"	340	345	75427	18.2
Solo	"	"	"	340					
Archive (at) yard 580									

Any on the job injury? Yes No Driver's Signature: Bruce S Johnston Total Loads: 4

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys.
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 LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75427
 Ph: 206-694-0600

Customer Name RIVERSEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/09/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/09/2022 15:40:23 Scale 1 Operator Inbound Gross 65680 lb
 Out 09/09/2022 15:40:23 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 36540 lb
 Tons 18.27
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	18.27	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	18.27	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75423
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/09/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/09/2022 14:29:48 Scale Operator Inbound Gross 61280 lb
 Out 09/09/2022 14:29:48 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 32140 lb
 Tons 16.07
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	16.07	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	16.07	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75418
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/09/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time 09/09/2022 14:01:41 Scale Operator Inbound Gross 63660 lb
 Out 09/09/2022 14:01:41 Scale 1 kfunk2 Tare 29140 lb
 kfunk2 Net 34520 lb
 Tons 17.26
 Comments RE-KLF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	17.26	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	17.26	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75409
 Ph: 206-694-0600

Customer Name RIVERSEEDGEENVIRONMENTAL RIVER Carrier SELF SELF
 Ticket Date 09/09/2022 Vehicle# RE23S Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver BRUCE JOHNSTON
 Route Check#
 Hauling Ticket# Billing# 0000009
 Destination Grid
 PO# 22-145/138352OR
 In Time Scale Operator Inbound Gross 59120 lb
 09/09/2022 13:29:28 Scale 1 kfunk2 Tare 29140 lb
 Out 09/09/2022 13:29:28 kfunk2 Net 29980 lb
 Tons 14.99
 Comments RE-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	14.99	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	14.99	Tons				KING
4 FUELSUR-FUEL SURCHARGE	100		%				KING

Total Tax
 Total Ticket

Driver's Signature



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 12:02:35 PM
 Ticket #: 3038

PROJECT LOCATION

Loads Today: 2
 Units Today: 32.00

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	29.43	58,860	26.70
Tare:	13.81	27,620	12.53
Net:	15.62	31,240	14.17

Driver's Name Kevin

All purchases and/or deliveries are subject to the Terms & Conditions of Seller's Purchase Agreement and payment terms, which are incorporated herein by this reference as if the same were set forth in full. A complete copy is available from Seller upon request. The receipt and/or delivery of materials shall constitute Purchaser's acceptance of the Terms & Conditions in their entirety.

DRIVER SIGNATURE

[Signature]

WEIGHMASTER

[Signature: Molly Emerick]



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 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 12:02:35 PM
 Ticket #: 3038

PROJECT LOCATION

Loads Today: 2
 Units Today: 32.00

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	29.43	58,860	26.70
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DRIVER SIGNATURE

[Signature]

WEIGHMASTER

[Signature: Molly Emerick]



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 8:34:04 AM
 Ticket #: 3036

PROJECT LOCATION

Loads Today: 1
 Units Today: 16.38

Order: 100 - Dallas St. and South Park Marina 22-145
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	30.19	60,380	27.39
Tare:	13.81	27,620	12.53
Net:	16.38	32,760	14.86

Driver's Name Kevin

DRIVER SIGNATURE

WEIGHMASTER

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 8:34:04 AM
 Ticket #: 3036

PROJECT LOCATION

Loads Today: 1
 Units Today: 16.38

Order: 100 - Dallas St. and South Park Marina 22-146
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	30.19	60,380	27.39
Tare:	13.81	27,620	12.53
Net:	16.38	32,760	14.86

Driver's Name Kevin

DRIVER SIGNATURE

WEIGHMASTER

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 1:24:27 PM
 Ticket #: 3039

PROJECT LOCATION

Loads Today: 3
 Units Today: 47.03

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	28.84	57,680	26.16
Tare:	13.81	27,620	12.53
Net:	15.03	30,060	13.63

Driver's Name Kevin

DRIVER SIGNATURE

WEIGHMASTER

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 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/12/2022
 Time: 1:24:27 PM
 Ticket #: 3039

PROJECT LOCATION

Loads Today: 3
 Units Today: 47.03

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE7S - Rivers Edge Environmental Services
 PO #:
 Job #:
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	28.84	57,680	26.16
Tare:	13.81	27,620	12.53
Net:	15.03	30,060	13.63

Driver's Name Kevin

DRIVER SIGNATURE

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 1:21:33 PM
 Ticket #: 3044

PROJECT LOCATION

Loads Today: 5
 Units Today: 91.96

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.98	65,960	29.92
Tare:	14.47	28,940	13.13
Net:	18.51	37,020	16.79

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Oster

WEIGHMASTER

Molly Emerick

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 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 1:21:33 PM
 Ticket #: 3044

PROJECT LOCATION

Loads Today: 5
 Units Today: 91.96

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.98	65,960	29.92
Tare:	14.47	28,940	13.13
Net:	18.51	37,020	16.79

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Oster

WEIGHMASTER

Molly Emerick

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 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 12:20:23 PM
 Ticket #: 3043

PROJECT LOCATION

Loads Today: 4
 Units Today: 73.45

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.76	65,520	29.72
Tare:	14.47	28,940	13.13
Net:	18.29	36,580	16.59

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Spitzer

WEIGHMASTER

Molly Emerick

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 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 12:20:23 PM
 Ticket #: 3043

PROJECT LOCATION

Loads Today: 4
 Units Today: 73.45

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.76	65,520	29.72
Tare:	14.47	28,940	13.13
Net:	18.29	36,580	16.59

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Spitzer

WEIGHMASTER

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 11:04:27 AM
 Ticket #: 3042

PROJECT LOCATION

Loads Today: 3
 Units Today: 55.16

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.86	65,720	29.81
Tare:	14.47	28,940	13.13
Net:	18.39	36,780	16.68

Driver's Name Bruce

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DRIVER SIGNATURE

Bruce

WEIGHMASTER

Molly Emerick



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 11:04:27 AM
 Ticket #: 3042

PROJECT LOCATION

Loads Today: 3
 Units Today: 55.16

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.86	65,720	29.81
Tare:	14.47	28,940	13.13
Net:	18.39	36,780	16.68

Driver's Name Bruce

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DRIVER SIGNATURE

Bruce

WEIGHMASTER

Molly Emerick



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 9:47:11 AM
 Ticket #: 3041

PROJECT LOCATION

Loads Today: 2
 Units Today: 36.77

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.95	65,900	29.89
Tare:	14.47	28,940	13.13
Net:	18.48	36,960	16.76

Driver's Name Bruce

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DRIVER SIGNATURE

Bruce S. [Signature]

WEIGHMASTER

Molly Emerick [Signature]



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 9:47:11 AM
 Ticket #: 3041

PROJECT LOCATION

Loads Today: 2
 Units Today: 36.77

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.95	65,900	29.89
Tare:	14.47	28,940	13.13
Net:	18.48	36,960	16.76

Driver's Name Bruce

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DRIVER SIGNATURE

Bruce S. [Signature]

WEIGHMASTER

Molly Emerick [Signature]



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 7:22:05 AM
 Ticket #: 3040

PROJECT LOCATION

Loads Today: 1
 Units Today: 18.29

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.76	65,520	29.72
Tare:	14.47	28,940	13.13
Net:	18.29	36,580	16.59

Driver's Name Bruce

DRIVER SIGNATURE

Bruce J. [Signature]

WEIGHMASTER

Molly Emerick [Signature]

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/13/2022
 Time: 7:22:05 AM
 Ticket #: 3040

PROJECT LOCATION

Loads Today: 1
 Units Today: 18.29

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	32.76	65,520	29.72
Tare:	14.47	28,940	13.13
Net:	18.29	36,580	16.59

Driver's Name Bruce

DRIVER SIGNATURE

Bruce J. [Signature]

WEIGHMASTER

Molly Emerick [Signature]

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7165

DELIVERY/TONNAGE TICKET

Contractor #RIVEREE855DT



RIVERS EDGE ENVIRONMENTAL SERVICES, INC
Phone 425.584.7089 • 17115 SE 270th PL, Suite 106 Covington, WA 98042

Driver Name: Bruce S Johnston
Date: Sept 14 Truck#: 23

TRAVEL TIME
Begin: 0530 End: 330

Driver Total Hours: _____
Total Travel: _____ Mileage: 703290
Lunch Down: _____ Begin Mileage: 703448
Fuel: _____ Total Miles: _____
Pre-Trip Pre-Trip DVIR #: _____
Out-of-State Mileage: _____ State of Travel: _____
In: _____ Out: _____
Trips: _____ Total Miles: _____

Contractor Name: _____
PO/Job: 8661 DAVIS AVES

Bill By Ton: Yard: Job#: 22-145

Start Time: 0530

Stop Time: 330 Lunch Time: _____

Total Time: _____ Down Time: _____
Reason for Delay (Standby) _____

T&T/ SOLD	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	TRICKET #	YARDS/ TONZ
Solo	Gravel/Barkow	ELK HTS	648	701	22-145	740	745	3045	19.4
Solo	" "	" "	820	830	" "	915	930	3046	38.8
Solo	" "	" "	1034	1045	" "	1215	200	3047	57.7
23/15	11eD	22-145		200	YARD	330			

Any on the job injury?
Yes No

Driver's Signature
Bruce S Johnston

Total Loads
4

By signing this document, I certify that all of the above information is true and accurate. Signature of the ticket will be considered your notice of our intent to lien this project. Invoices not paid after the tenth of the month following the date that services were rendered are past due and shall accrue interest at a rate of 18%. Interstate Commerce terms are Net 30 days; WA Interstate are Net 30, unless the carrier has made special terms. In the event a dispute arises, the prevailing party shall be entitled to actual attorney fees and costs incurred, regardless if suit is commenced. These attorney fees, collection costs, court costs and similar related expenses expending or incurred by Rivers Edge Environmental Services, Inc. in enforcement of collection shall include, but not limited to, telephone, postal charges, and reasonable compensation for time of Rivers Edge Environmental Services, Inc's representatives and attorneys. WARRANTY: RIVERS EDGE ENVIRONMENTAL SERVICES, INC. AND ITS SUPPLIERS AND SUBCONTRACTORS WARRANT ALL MATERIALS SOLD HEREUNDER CONFIRM TO RIVERS EDGE ENVIRONMENTAL SERVICES, INC. QUOTATION. RIVERS EDGE ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE MATERIALS, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. LIMITATION OF LIABILITY: Rivers Edge Environmental Services, Inc. liability to customer, however caused, whether in contract, tort, or otherwise, including without limitation, any indemnification, liabilities or damage for property or personal loss, shall in no event exceed the total compensation paid Rivers Edge Environmental Services, Inc. hereunder. This limitation of liability shall survive the completion or termination of this transaction.

Authorized Rep Signature: _____



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 10:38:53 AM
 Ticket #: 3047

PROJECT LOCATION

Loads Today: 3
 Units Today: 57.76

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

22-102

	Tons	Pounds	M-Tons
Gross:	33.62	67,240	30.50
Tare:	14.46	28,920	13.12
Net:	19.16	38,320	17.38

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Schubert

WEIGHMASTER

Molly Emerick

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 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 10:38:53 AM
 Ticket #: 3047

PROJECT LOCATION

Loads Today: 3
 Units Today: 57.76

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	33.62	67,240	30.50
Tare:	14.46	28,920	13.12
Net:	19.16	38,320	17.38

Driver's Name Bruce

DRIVER SIGNATURE

Bruce Schubert

WEIGHMASTER

Molly Emerick

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 8:28:59 AM
 Ticket #: 3046

PROJECT LOCATION

Loads Today: 2
 Units Today: 38.60

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	33.61	67,220	30.49
Tare:	14.46	28,920	13.12
Net:	19.15	38,300	17.37

Driver's Name Bruce

DRIVER SIGNATURE

Bruce S. Adams

WEIGHMASTER

Molly Emerick

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 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 8:28:59 AM
 Ticket #: 3046

PROJECT LOCATION

Loads Today: 2
 Units Today: 38.60

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	33.61	67,220	30.49
Tare:	14.46	28,920	13.12
Net:	19.15	38,300	17.37

Driver's Name Bruce

DRIVER SIGNATURE

Bruce S. Adams

WEIGHMASTER

Molly Emerick

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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 7:01:45 AM
 Ticket #: 3045

PROJECT LOCATION

Loads Today: 1
 Units Today: 19.45

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	33.91	67,820	30.76
Tare:	14.46	28,920	13.12
Net:	19.45	38,900	17.64

Driver's Name Bruce

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DRIVER SIGNATURE

Bruce Sifalora

WEIGHMASTER

Molly Emerick



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 9/14/2022
 Time: 7:01:45 AM
 Ticket #: 3045

PROJECT LOCATION

Loads Today: 1
 Units Today: 19.45

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: RE23S - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Gravel Borrow

Ticket Note

	Tons	Pounds	M-Tons
Gross:	33.91	67,820	30.76
Tare:	14.46	28,920	13.12
Net:	19.45	38,900	17.64

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DRIVER SIGNATURE

Bruce Sifalora

WEIGHMASTER

Molly Emerick

Rainier Wood Recyclers

28411 COVINGTON WAY SE COVINGTON WA 98042

425-222-0008

Email: RWRAdmin@rainierwood.com



Date Out 11/23/2022

Time In

Time Out 12:53 PM

Ticket Number 47505
Customer RIVERS EDGE ENVIRONMENTAL
Truck No.
PO No. 22-145
Hauler
Product TPS Concrete UNDER 2'-
Notes

Gross 50980
Tare 43360 Keyed
Net 7620
Quantity 3.81 Tons
Terms ACCOUNT

A handwritten signature in black ink, appearing to read "S. Schmitten", written over a horizontal line.

Driver Signature

Sam Schmitten

Weighmaster Signature



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 11/23/2022
 Time: 11:27:56 AM

Ticket #: 3272

PROJECT LOCATION

Loads Today: 3
 Units Today: 89.83

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE1SD - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Non Spec Type 17

Ticket Note

	Tons	Pounds	M-Tons
Gross:	52.12	104,240	47.28
Tare:	21.98	43,960	19.94
Net:	30.14	60,280	27.34

Driver's Name Rick

DRIVER SIGNATURE

WEIGHMASTER

All purchases and/or deliveries are subject to the Terms & Conditions of Seller's Purchase Agreement and payment terms, which are incorporated herein by this reference as if the same were set forth in full. A complete copy is available from Seller upon request. The receipt and/or delivery of materials shall constitute Purchaser's acceptance of the Terms & Conditions in their entirety.



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Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 11/23/2022
 Time: 10:20:55 AM
 Ticket #: 3268

PROJECT LOCATION

Loads Today: 2
 Units Today: 59.69

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE1SD - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Non Spec Type 17

Ticket Note

	Tons	Pounds	M-Tons
Gross:	52.71	105,420	47.82
Tare:	21.98	43,960	19.94
Net:	30.73	61,460	27.88

All purchases and/or deliveries are subject to the Terms & Conditions of Seller's Purchase Agreement and payment terms, which are incorporated herein by this reference as if the same were set forth in full. A complete copy is available from Seller upon request. The receipt and/or delivery of materials shall constitute Purchaser's acceptance of the Terms & Conditions in their entirety.

Driver's Name Rick

DRIVER SIGNATURE

WEIGHMASTER



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Date: 11/23/2022
 Time: 10:20:55 AM
 Ticket #: 3268

PROJECT LOCATION

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 Units Today: 59.69

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
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 PO #:
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Ticket Note

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Driver's Name Rick

DRIVER SIGNATURE

WEIGHMASTER



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 11/23/2022
 Time: 9:12:42 AM
 Ticket #: 3265

PROJECT LOCATION

Loads Today: 1
 Units Today: 28.96

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE1SD - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Non Spec Type 17

Ticket Note

	Tons	Pounds	M-Tons
Gross:	50.94	101,880	46.21
Tare:	21.98	43,960	19.94
Net:	28.96	57,920	26.27

All purchases and/or deliveries are subject to the Terms & Conditions of Seller's Purchase Agreement and payment terms, which are incorporated herein by this reference as if the same were set forth in full. A complete copy is available from Seller upon request. The receipt and/or delivery of materials shall constitute Purchaser's acceptance of the Terms & Conditions in their entirety.

Driver's Name Rick

DRIVER SIGNATURE

WEIGHMASTER



Office/Scale 425-471-8409
 22606 SE Lake Francis Rd
 Maple Valley, WA 98038
 office@elkheightspit.com

Date: 11/23/2022
 Time: 9:12:42 AM
 Ticket #: 3265

PROJECT LOCATION

Loads Today: 1
 Units Today: 28.96

Order: 100 - Dallas St. and South Park Marina
 Customer: REE - Rivers Edge Environmental
 Truck: REE1SD - Rivers Edge Environmental Services
 PO #:
 Job #: 22145
 Product: Non Spec Type 17

Ticket Note

	Tons	Pounds	M-Tons
Gross:	50.94	101,880	46.21
Tare:	21.98	43,960	19.94
Net:	28.96	57,920	26.27

All purchases and/or deliveries are subject to the Terms & Conditions of Seller's Purchase Agreement and payment terms, which are incorporated herein by this reference as if the same were set forth in full. A complete copy is available from Seller upon request. The receipt and/or delivery of materials shall constitute Purchaser's acceptance of the Terms & Conditions in their entirety.

Driver's Name Rick

DRIVER SIGNATURE

WEIGHMASTER



Sales/Delivery Ticket

Leave Plant	
Arrive Job	
Start Pour	
Finish Pour	
Finish Wash	
Leave Job	

Warning: Irritation to Skin and Eyes
 This product contains Portland Cement. Freshly mixed cement, mortar, grout or concrete may cause skin irritation and/or allergic reaction. Do not use without protective gear and clothing. Avoid any contact with skin. Wash exposed areas immediately with water. If cementitious materials get into the eye, rinse immediately and repeatedly with water and get prompt medical attention.
Keep Away From Children

WEIGHMASTER CERTIFICATE
 California Only
 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 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.
 Weighmaster:

Water added at customer's request	
Slump on arrival	
Gals to full load	
Gals to 2/3 load	
Gals to 1/3 load	

Rev Counter on Load:

 Test Cylinders Taken:

This concrete is designed in accordance to American Concrete Institute Standards. Any water added to this design will be at purchasers risk. Materials hereby sold become property of purchaser at time of origin. Calportland is not responsible for damages to property in the event that delivery is beyond curb line. Seller is not responsible for popouts or other imperfections resulting from reactive aggregates.

Reasons for Delay Time	
Job not ready	
Lack of Help	
Wheel Barrow Job	
Pump Late/Problems	
Other	

Arrive Plant	
Time Allowed	
Time Used	
Excess Time	

Date/Time: 12/5/22	Superplasticer Amt Added:	Cust. Proj#:	Ordered By:	Phone #:	Map Page:
-----------------------	---------------------------	--------------	-------------	----------	-----------

Customer: Rivers Edge	Order Type:	P.O. Number 22145	Driver Name:	Truck #: RIV 23	Order #:
--------------------------	-------------	----------------------	--------------	--------------------	----------

Scheduled Arrival:	Slump:	Load#: 1	Prev. Truck #:	Qty This Load:	Qty Delivered:	Qty Ordered:	Plant: 703R	Alley:	Truck License #:
--------------------	--------	-------------	----------------	----------------	----------------	--------------	----------------	--------	------------------

Delivery Address:
Customer Plus

Ticket Notes:
Bluel Dallas Ave So
Seattle

Quantity	UOM	Product Code	Product Description	Unit Price	Amount	Changed
8.00	ea	9177	2x2x6 ecoblocks			

Sales Tax:	Ticket Total:	Balance Forward:	Standing Time:	Order Total:
------------	---------------	------------------	----------------	--------------

X Bruce S. Jelene

I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

Appendix E
Concrete Vault Documentation



2661 North Pearl St. #145
Tacoma, WA 98407
253.503.3096

DATE	WORK ORDER #	TICKET #
11-15-22	20017	38585
OPERATOR		LABORER
Steer		

Customer Ries Edge Job Phone _____
 Job Address 8661 Dallas Ave S C, S, Z Seattle, WA 98108

TRAVEL TO SITE		ON SITE		DUMP OUT COMPLETED	RETURN TO SHOP	TRUCK #
START	STOP	IN	OUT			220
9:00	9:45	9:45	10:15			

QUANTITY	JOB DESCRIPTION	RATE	TOTAL
750 G	Pumped (cleaned) O.W.S. 20% solid		
1	Hour Truck Driver		
1	Emergency Comp Fee		

DISPOSAL:	<input type="checkbox"/> ON SITE	<input checked="" type="checkbox"/> OFF SITE	SUBTOTAL
LOCATION:	<u>RRS Camp</u>		TAX
			TOTAL

SIGNATURE BELOW ACKNOWLEDGES PAYMENT TERMS ON REVERSE:

CUSTOMER NAME: RRS SIGNATURE: NS

B.O.L. # 13732

SHIPPING PAPER



DATE	11-15-22	WO #	70017
------	----------	------	-------

SHIPPER / CUSTOMER
 River Edge Battery
 ADDRESS
 8661 Dallas Ave S
 CITY, STATE, ZIP
 Seattle WA 98108

CONSIGNEE / FACILITY
 PPS Group
 ADDRESS
 3003 Taylor Way
 City, State, ZIP
 Tacoma WA 98421

CONTACT NAME
 PHONE #

CONTACT NAME
 Tom Smith
 PHONE #

HM	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers		Total Quantity	UOM	CHLOR	pH
		No.	Type				
A	MATERIAL NOT REGULATED BY DOT oil, water	01	TT	750	G		7
B							
C							
D							
E							
F							

Special Handling Instruction and Additional Information:
 A) Profile # 9336 B

SHIPPER'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations." I also certify that all times listed above are true and correct.

(SHIPPER) PRINT OR TYPE NAME X On behalf of River Edge	SIGNATURE X [Signature]	MONTH 11	DAY 15	YEAR 22
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME X Stephen Bessemmer	SIGNATURE X [Signature]	MONTH 11	DAY 15	YEAR 22
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME X PPS	SIGNATURE X [Signature]	MONTH 11	DAY 15	YEAR 22



Inspection and Maintenance Checklist

Oil/ Water Separators

Date: 11-15-22 Work Order # 70017 Treatment Unit # O.W.S.
 Company Name: River's Edge Site Location: Seattle WA Inspected By: Stephen P

Defect	Conditions When Maintenance Is Needed	Maintenance P/F	Comments
General			
Monitoring	Inspection of discharge water for obvious signs of poor water quality.	P	
Sediment Accumulation*	Sediment depth in bottom of vault exceeds 6-inches in depth and/or visible signs of sediment on plates.	F	12"
Trash and Debris Accumulation*	Trash and debris accumulated in vault, or pipe inlet/outlet, floatables and non-floatables.	P	
Oil Accumulation*	Oil accumulation that exceeds 1-inch at the water surface.	P	
Damaged Coalescing Plates	Plate media broken, deformed, cracked and/or showing signs of failure.	NA	
Damaged Pipes	Inlet or outlet piping damaged or broken and in need of repair.	P	
Baffles	Baffles corroding, cracking, warping and/or showing signs of failure as determined by maintenance/inspection person.	P	
Vault Structure Damage - Includes Cracks in Walls, Bottom, Damage to Frame and/or Top Slab	Cracks wider than 1/2-inch or evidence of soil particles entering the structure through the cracks, or maintenance/inspection personnel determine that the vault is not structurally sound.	P	
	Cracks wider than 1/2-inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks.	P	
Access Ladder Damaged	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall, missing rungs, cracks, and misaligned.	NA	

Maintenance: Enter P if inspection passed and enter F if failed.

Comments:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 20, 2022

Dan Kuhn, Project Manager
Rivers Edge Environmental
17115 SE 270th Pl Suite 106
Covington, WA 98042

Dear Mr Kuhn:

Included are the results from the testing of material submitted on September 27, 2016 from the Basin Oil, F&BI 209422 project. There is 1 page included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: accounting@rivers.city
RDG1020R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2022 by Friedman & Bruya, Inc. from the Rivers Edge Environmental Basin Oil, F&BI 209422 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

209422 -01

Rivers Edge Environmental

Basin OWS

The sample was sent to Rainier Environmental for dangerous waste characterization analysis. The report is enclosed.



Dangerous Waste Characterization

Sample ID: Basin OWS

Report date: October 19, 2022

Submitted to:

Freidman and Bruya, Inc.
3012 16th Ave W
Seattle, WA 98119

Rainier Environmental
5013 Pacific Hwy East
Suite 20
Tacoma, WA 98424

1.0 INTRODUCTION

A dangerous waste characterization using the test organism *Oncorhynchus mykiss* (rainbow trout) was conducted on one sample submitted by Friedman and Bruya, Inc. to Rainier Environmental. Testing was conducted following the Washington State Department of Ecology Publication 80-12.

2.0 METHODS

The sample, identified as Basin OWS was received in the laboratory on October 12, 2022. Upon arrival at the laboratory the sample was inspected and contents verified against information provided on the chain-of-custody form. The sample was stored at 4°C in the dark until use. The test procedure is outlined in Table 1.

Table 1. Summary of Dangerous Waste Characterization Test Conditions

Parameter	Standard Fish Toxicity Test
Test number	2210-021
Sample ID	Basin OWS
Test initiation date; time	10/14/2022; 0940h
Test termination date; time	10/18/2022; 0940h
Endpoint	Mortality at 96-hours
Test chamber	7.5 L plastic tank
Test temperature	12 ± 1°C
Dilution water	Moderately hard synthetic water
Test solution volume	6 L
Test concentrations (mg/L)	100, 10, 0
Number of organisms/chamber	10
Number of replicates	3
Test organism	<i>Oncorhynchus mykiss</i> (rainbow trout)
Feeding	No feeding during test
Photoperiod	16 hours light/ 8 hours dark
Extraction	Rotary agitation (30 +/- 2 rpm) for 18 hours
Reference Toxicant	Copper sulfate
Deviations	None

The test organisms used in the test are outlined in Table 2. The samples were tested using fish received on August 16, 2022.

Table 2. Test organisms (*Oncorhynchus mykiss*)

Test organism age	72 days post swim-up (hatch date 7/15/2022)
Mean weight	0.41 g
Mean length	41 mm
Ratio of longest to shortest	1.2
Loading	0.68 g/L
Test organism source	Trout Lodge; Sumner, WA

3.0 RESULTS

A summary of results for the dangerous waste characterization conducted on sample Basin OWS is contained in Table 3. There was no mortality during the test. Based on these results, the sample does not designate as either a dangerous or extremely hazardous waste. Copies of the laboratory bench sheets, statistical summaries of reference toxicant tests, and chain-of-custody form are provided in Appendices A through C.

Table 3. Summary of Results

Sample ID	Concentration (mg/L)	Survival (# fish, N=30)	Percent Mortality	Dangerous Waste Designation
Control	0	30	0	NA
Basin OWS	10	30	0	None
	100	30	0	

4.0 QUALITY ASSURANCE

The most recently completed reference toxicant test was initiated October 10, 2022. The LC₅₀ of 93.3 g/L copper fell within the acceptable range of mean ± two standard deviations of historical test results indicating that the test organisms were of an appropriate degree of sensitivity. The coefficient of variation (CV) for the last 20 tests was 27.3 percent, which is considered excellent by the Biomonitoring Science Advisory Board.

5.0 REFERENCES

- WDOE. 2016. Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria. Washington State Department of Ecology. Water Quality Program. Publication number: WQ-R-95-80, Revised June 2016.
- WDOE. 2020. Biological Testing Methods 80-12 for the Designation of Dangerous Waste. Washington State Department of Ecology. Hazardous Waste and Toxics Reduction Program. Publication number: 80-12, Revised September 2020.

Appendix A
***Oncorhynchus mykiss* Dangerous Waste Toxicity Test**
Raw Bench Sheets

Dangerous Waste Toxicity Test

Client: Friedman & Bryga, Inc.

Sample ID: Basin OWS

Test #: 2210 - 021

Log In #: T22 - 301

Start Date & Time: 10/14/2022 0940

End Date & Time: 10/18/2022 0940

Test Organism: Oncorhynchus mykiss

Test Protocol: Washington State Department of Ecology Publ. 80-12

Rep	Conc.	Cont #	Number of Live Organisms						Dissolved Oxygen (mg/L)	pH (units)	Conductivity (umhos/cm)	Temperature (°C)	Percent Survival										
			0	24	48	72	96	0															
1	CON	22	10	10	10	10	10	8.7	8.4	8.2	8.0	7.6	196	786	752	738	722	383	391	12.1	12.3	12.3	12.1
2		11	10	10	10	10	10	9.0	8.7	8.4	8.1	7.8	194	771	746	741	721	383	391				
3		5	10	10	10	10	10	9.1	8.9	8.5	8.4	8.1	191	772	749	735	735	384	390				
1	10 PPM	19	10	10	10	10	10	8.6	8.3	8.1	8.0	7.7	193	774	745	733	720	382	388	12.1	12.0	11.9	11.9
2		12	10	10	10	10	10	8.9	8.5	8.3	8.1	7.9	192	770	749	734	722	379	384				
3		3	10	10	10	10	10	8.9	8.4	8.3	8.0	7.7	190	769	748	731	722	380	385				
1	100 PPM	24	10	10	10	10	10	8.7	8.2	8.0	7.7	7.5	194	771	745	732	724	384	391	12.2	12.1	11.5	11.5
2		7	10	10	10	10	10	8.9	8.4	8.1	7.8	7.7	191	774	749	733	723	384	387				
3		11	10	10	10	10	10	9.0	8.6	8.3	8.1	8.0	196	772	750	735	726	382	395				
1																							
2																							
3																							
1																							
2																							
3																							
1																							
2																							
3																							
Technician Initials																							

Sample	Alk. (init)	Hard. (init)	Alk. (fin.)	Hard. (fin.)	Chlorine (mg/L Cl2)	Animal Source:	Test Volume:	
							Date of Hatch:	Date of Swim up:
Control	64	88	64	88	<0.03		100ml	7/15/2022
100PPM	64	88	64	88			100ml	8/12/2022

Weights (g): 40 37 41 42 39 41 41 42 41 44
 Lengths (mm): 39 37 43 43 40 42 40 41 41 45
 Length max/min: 46/37 1.2
 Loading: 0.68 g/l
 Test Volume: 10.0L
 Date of Hatch: 7/15/2022
 Date of Swim up: 8/12/2022

Dilution Water Source: MHSW OSG QA Check 8

Appendix B
Reference Toxicant Test
Control Chart and Statistical Summary

Fish 96-h Acute Survival Test

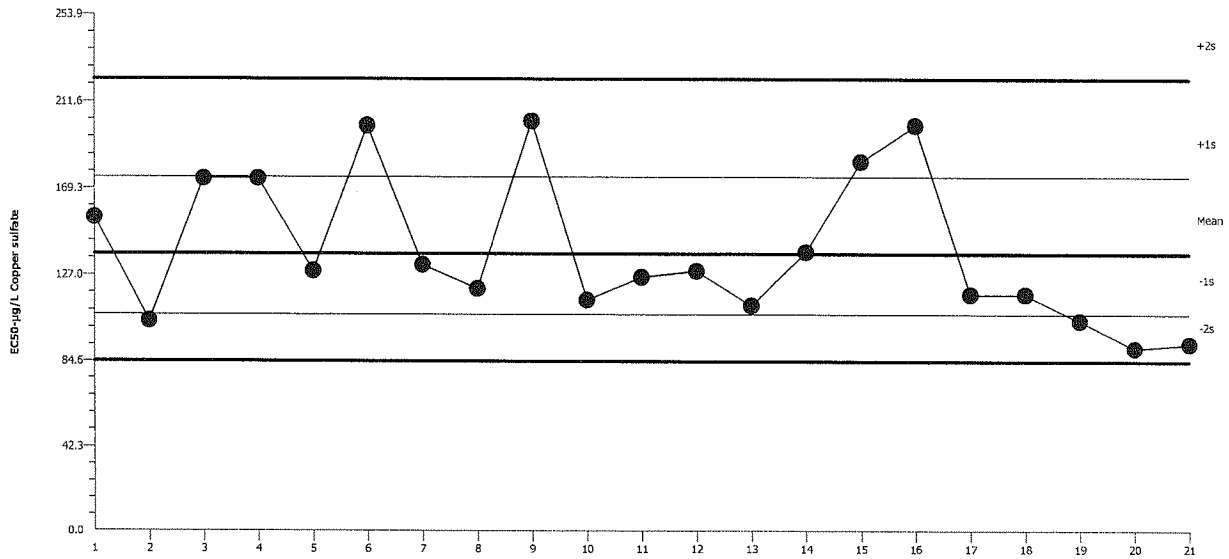
Rainier Environmental Laboratory

Test Type: Survival (96h)
Protocol: Not Applicable

Organism: Oncorhynchus mykiss (Rainbow Tro)
Endpoint: 96h Survival Rate

Material: Copper sulfate
Source: Reference Toxicant-REF

Fish 96-h Acute Survival Test



Mean: 137.3 Count: 20 -1s Warning Limit: 107.8 -2s Action Limit: 84.66
 Sigma: NA CV: 27.30% +1s Warning Limit: 174.8 +2s Action Limit: 222.6

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2021	Jan	25	155.1	17.84	0.5054			20-5317-8946	09-6722-9321
2		Feb	25	104.7	-32.55	-1.12	(-)		02-0723-8590	03-5049-2171
3		Mar	26	174.1	36.83	0.9834			20-1005-2762	02-2683-0690
4		May	3	174.1	36.83	0.9834			06-3924-6336	17-2626-4312
5		Jun	2	128.9	-8.34	-0.2593			07-7369-8679	18-7582-9918
6		Jul	5	200	62.72	1.557	(+)		05-2506-1213	20-3965-9928
7		Aug	4	132	-5.326	-0.1637			08-9905-2998	16-3326-2875
8		Sep	6	120.3	-16.97	-0.5461			05-9967-6128	07-2600-9766
9		Oct	4	202.2	64.9	1.602	(+)		19-8922-3248	13-1559-3159
10		Nov	5	114.9	-22.41	-0.7373			04-8669-6249	15-6834-1433
11		Dec	6	126	-11.28	-0.3549			13-8732-0751	08-1557-4326
12	2022	Jan	5	128.9	-8.34	-0.2593			08-2261-8669	03-7761-6146
13		Feb	5	112.2	-25.03	-0.8329			01-7899-0440	09-8784-8920
14		Mar	7	138.2	0.9144	0.02747			15-8880-5349	18-5703-0746
15		Apr	11	182.3	45.07	1.175	(+)		19-4475-1025	00-2732-4149
16		May	11	200	62.72	1.557	(+)		04-3686-1214	17-7144-4708
17		Jun	13	117.6	-19.72	-0.6417			02-1194-6933	14-6655-2671
18		Jul	11	117.6	-19.72	-0.6417			18-9490-6426	20-8229-8763
19		Aug	12	104.7	-32.55	-1.12	(-)		16-1269-6384	20-8498-8487
20		Sep	14	91.17	-46.1	-1.693	(-)		21-3997-4244	00-3631-7496
21		Oct	10	93.3	-43.97	-1.598	(-)		01-3925-6404	03-9134-1193

CETIS Summary Report

Report Date: 17 Oct-22 10:31 (p 1 of 1)
 Test Code: RA101022OM | 01-3925-6404

Fish 96-h Acute Survival Test

Rainier Environmental Laboratory

Batch ID: 20-5855-7800	Test Type: Survival (96h)	Analyst: Eric Tollefson
Start Date: 10 Oct-22 14:30	Protocol: Not Applicable	Diluent: Mod-Hard Synthetic Water
Ending Date: 14 Oct-22 14:30	Species: Oncorhynchus mykiss	Brine:
Duration: 96h	Source: Trout Lodge Fish Farm	Age: 68d
Sample ID: 03-6732-9106	Code: RA101022OM	Client: Internal Lab
Sample Date: 10 Oct-22	Material: Copper sulfate	Project:
Receive Date: 10 Oct-22	Source: Reference Toxicant	
Sample Age: 14h	Station: In House	

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
15-0969-2219	96h Survival Rate	50	100	70.71	17.9%		Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
03-9134-1193	96h Survival Rate	LC50	93.3	81.02	107.5		Spearman-Kärber

96h Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	3	1	1	1	1	1	0	0	0.0%	0.0%
25		3	1	1	1	1	1	0	0	0.0%	0.0%
50		3	0.9333	0.9118	0.9549	0.9	1	0.03333	0.05774	6.19%	6.67%
100		3	0.4667	0.3727	0.5606	0.2	0.7	0.1453	0.2517	53.93%	53.33%
200		3	0	0	0	0	0	0	0		100.0%
400		3	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	1	1	1
25		1	1	1
50		0.9	0.9	1
100		0.5	0.2	0.7
200		0	0	0
400		0	0	0

96h Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	10/10	10/10	10/10
25		10/10	10/10	10/10
50		9/10	9/10	10/10
100		5/10	2/10	7/10
200		0/10	0/10	0/10
400		0/10	0/10	0/10

Appendix C
Chain-of-Custody Form

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 3, 2022

Dan Kuhn, Project Manager
Rivers Edge Environmental
17115 SE 270th Pl Suite 106
Covington, WA 98042

Dear Mr Kuhn:

Included are the results from the testing of material submitted on September 27, 2016 from the Basin Oil, F&BI 209422 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: accounting@rivers.city
RDG1003R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2022 by Friedman & Bruya, Inc. from the Rivers Edge Environmental Basin Oil, F&BI 209422 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
209422 -01

Rivers Edge Environmental
Basin OWS

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/03/22
Date Received: 09/27/22
Project: Basin Oil, F&BI 209422
Date Extracted: NA
Date Analyzed: 09/28/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
Basin OWS 209422-01	68

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Basin OWS	Client:	Rivers Edge Environmental
Date Received:	09/27/22	Project:	Basin Oil, F&BI 209422
Date Extracted:	09/28/22	Lab ID:	209422-01
Date Analyzed:	09/28/22	Data File:	209422-01.062
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	6.83
Molybdenum	65.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Basin OWS	Client:	Rivers Edge Environmental
Date Received:	09/27/22	Project:	Basin Oil, F&BI 209422
Date Extracted:	09/28/22	Lab ID:	209422-01 x10
Date Analyzed:	09/29/22	Data File:	209422-01 x10.052
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	660
Copper	430
Lead	450
Nickel	67.1
Zinc	4,560

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Rivers Edge Environmental
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209422
Date Extracted:	09/28/22	Lab ID:	I2-686 mb2
Date Analyzed:	09/28/22	Data File:	I2-686 mb2.123
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Molybdenum	<1
Nickel	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/03/22

Date Received: 09/27/22

Project: Basin Oil, F&BI 209422

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

Laboratory Code: 209414-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Cadmium	mg/kg (ppm)	10	<5	93	94	75-125	1
Chromium	mg/kg (ppm)	50	16.4	90	91	75-125	1
Copper	mg/kg (ppm)	50	<25	90	89	75-125	1
Lead	mg/kg (ppm)	50	5.70	87	88	75-125	1
Molybdenum	mg/kg (ppm)	20	<5	94	95	75-125	1
Nickel	mg/kg (ppm)	25	11.9	90	96	75-125	6
Zinc	mg/kg (ppm)	50	27.2	90	91	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Cadmium	mg/kg (ppm)	10	97	80-120
Chromium	mg/kg (ppm)	50	99	80-120
Copper	mg/kg (ppm)	50	96	80-120
Lead	mg/kg (ppm)	50	99	80-120
Molybdenum	mg/kg (ppm)	20	109	80-120
Nickel	mg/kg (ppm)	25	96	80-120
Zinc	mg/kg (ppm)	50	98	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix F

Summary of Site Characterization Activities: Basin Oil Property

Department of Ecology, August 2010

Lower Duwamish Waterway Early Action Area 5

Summary of Site Characterization Activities: Basin Oil Property



Washington State Department of Ecology
Toxics Cleanup Program
300 Desmond Drive
Lacey, Washington 98504

August 2010

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Acronyms and Abbreviations

ARI	Analytical Resources Incorporated
AST	aboveground storage tank
bgs	below ground surface
BEHP	bis(2-ethylhexyl)phthalate
DW	dry weight
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
HCID	hydrocarbon identification
LDW	Lower Duwamish Waterway
mg/kg	milligrams per kilograms
MTCA	Model Toxics Control Act
NAPL	non-aqueous phase liquid
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
pg/g	picogram per gram
PID	photo-ionization detector
PVC	polyvinyl chloride
SAIC	Science Applications International Corporation
SVOC	semivolatile organic compound
TEQ	toxic equivalent
TPH	total petroleum hydrocarbons
TSCA	Toxic Substance Control Act
VOC	volatile organic compound

1.0 Introduction

This report was prepared by Science Applications International Corporation (SAIC) on behalf of the Washington State Department of Ecology (Ecology); it summarizes the results of environmental sampling conducted at the former Basin Oil Company property (Basin Oil) in May 2009.

The former Basin Oil property is located on the west side of the Lower Duwamish Waterway (LDW), approximately 3.5 river miles from the south end of Harbor Island and just south of the South Park Bridge in King County, Washington (Figure 1). It consists of a small pie-shaped piece of property, approximately 80 feet wide at its base along S Donovan Street, and tapering to a point at the intersection of 17th Avenue S (west side) and Dallas Avenue S (east side) at the north end.

Basin Oil collected, transported, and marketed used oil. Beginning in 1987, Basin Oil leased the property from Malarkey Asphalt, then purchased the property in August 2000. The industrial operations of Basin Oil shared the site with its subsidiaries, Northwest Antifreeze Service and Basin Tank and Environmental Service. Basin Tank and Environmental Service closed in January 2002. Tank work was still performed under Basin Oil's name until 2004. The business was sold to Emerald Services Inc. in 2004, however the property still belongs to the former owner of Basin Oil. At the time the investigation described in this report was performed (May 2009), Basin Oil was in the process of demolishing the facility (Ecology 2007).

During an August 2004 inspection by Ecology and SPU, sludge samples were collected and analyzed from an oil/water separator and a catch basin at the site. The sludge contained high concentrations of petroleum and polycyclic aromatic hydrocarbons (PAHs; 183 to 4,300 mg/kg dry weight [DW]). In addition, it contained arsenic (98 and 248 mg/kg), zinc (711 and 830 mg/kg), bis(2-ethylhexyl)phthalate (BEHP; 41 and 84 mg/kg DW), and low levels of polychlorinated biphenyls (PCBs; 0.14 and 0.35 mg/kg DW). A U.S. Environmental Protection Agency (EPA) Toxic Substances Control Act (TSCA) inspection was conducted in May 2005. No issues of concern with respect to TSCA (which regulates PCBs over 50 mg/kg) were found (Ecology 2007).

Basin Oil has placed gravel in the disturbed areas at the south end of the property and installed a silt fence along the east side of the property to trap sediment in runoff that sheet flows off the site (Ecology 2007).

As part of the city of Seattle's interim action at Dallas Ave to address PCBs in the street, the City installed a temporary stormwater collection and treatment system to serve the newly paved roadways. Initially, the stormwater system collected runoff from the public right-of-way and the adjacent Basin Oil property and routed it to a temporary treatment system located on the south side of S Donovan Street. The runoff is stored in five 18,000-gallon storage tanks to allow runoff to be released to the sewer at a controlled rate. Effluent from the system has been sampled and tested, and PCBs have not been detected (at 0.1 µg/L) in any of the samples, including those from Basin Oil.

Ecology coordinated a multi-agency inspection of Basin Oil on March 14, 2007. The inspection included Ecology Hazardous Waste and Toxics Cleanup programs, Seattle Department of Development & Planning, Seattle Public Utilities, King County Water & Land Resources Division, and Public Health Seattle & King County. Ecology sent a letter to Basin Oil on April 17 listing the concerns and requirements of the agencies involved, as well as a comment from EPA.

Basin Oil removed all tanks, secondary containment walls, and drums prior to the 2009 investigation activities (fall 2007 through spring 2008). An effort was also made to remove suspected contaminated soil by removing visually stained soil in the south section of the property. Depth of excavation was estimated to range from one to three feet.

In April 2008, Ecology sent a letter to Basin Oil stating confirmation sampling details that needed to be carried out (Ecology 2008). The confirmation sampling was never completed by the owner, which resulted in the site characterization sampling described in this site characterization report.

Subsequent to the negotiation of an access agreement with Basin Oil, a sampling and analysis plan for the Basin Oil property (*Basin Oil Sampling, Sampling and Analysis Plan*) was prepared by SAIC in May 2009 (SAIC 2009). Sampling was conducted in May 2009.

Field activities conducted during these sampling events are described in Section 2.0. Investigation results are summarized in Sections 3.0 and 4.0, and Section 5.0 presents conclusions and recommendations. References are listed in Section 6.0.

2.0 Field Activities

2.1 Field Schedule

Investigation field activities included sampling and analysis of surface soil, subsurface soil, and groundwater. Specific activities and field schedule are listed below:

- Site walk and underground utilities location: May 6, 2009
- Soil borings and monitoring well installation: May 12-15, 2009
- Monitoring well development: May 18, 2009
- Site surveying and groundwater sampling: May 26, 2009

2.2 Soil Borings

Ten soil borings (BSB-1 to BSB-10, Figure 1) were advanced to total depths ranging from 14 to 16 feet below ground surface (bgs). Soil borings were hand-cleared to 5 feet bgs to avoid possible utility damage by using a hand auger. After each soil boring location was hand-cleared, a portable direct-push rig was set on each boring location to continue down-hole advancement. Four soil borings were completed at the former concrete platforms (BSB-6 to BSB-8 and BSB-10).

Soil samples were collected from each soil boring by hand tools (hand auger and trowel) or direct-push cores. Soil cores from the drill rig were collected in 4-foot long acetate liners. Soil samples collected in cores or with hand tools were logged using standard techniques described below.

Each soil boring was logged for the following features:

- Color
- Moisture content (dry, damp, moist, or wet)
- Lithology (using the modified Unified Soil Classification System)
- Anthropogenic material
- Geological interpretation, if pertinent (e.g., fill, topsoil, till, etc.)
- Presence of sheen or non-aqueous phase liquid (NAPL)
- Presence of odor or other indicators of contaminants
- Field screening results for organic vapor (using photoionization detector [PID])
- The boring logs for this investigation are provided in Appendix A.

Soil samples were collected every 2.5 feet, starting at 0-6 inches, for laboratory analysis. Only the top and bottom samples were analyzed and the rest of the samples were archived. However, if field screening techniques indicated the presence of contamination, the sample collected from that interval of contamination was analyzed as well. Validated analytical results are presented in Appendix B.

Between each borehole, all soil sampling equipment (hand auger, trowel, etc.) and field screening equipment (metal bowls, spoons, sheen pan) were decontaminated using a three-part wash/rinse process consisting of a Liquinox™ wash, a tap water rinse, and a de-ionized water rinse. Downhole equipment such as push rods was pressure-washed between each boring.

Soil borings BSB-1 through BSB-5 were located in the southern portion of the Basin Oil property, and soil borings BSB-6 through BSB-10 were located in the northern area of the property (Figure 1).

At a minimum, two soil samples from each soil boring were submitted for laboratory analysis. As summarized in Table 1, each sample was analyzed for the following:

- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Volatile organic compounds (VOCs) by EPA Method 8260
- PCBs by EPA Method 8082
- Eight Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6020/7470/7471
- Total Solids by SM 2540 B-97
- Grain Size by ASTM D421/411
- Total petroleum hydrocarbons (TPH) for the gasoline range by Ecology Method NWTPH-Gx
- Total petroleum hydrocarbons for the diesel range by Ecology Method NWTPH-Dx extended, with silica gel cleanup

In addition to the proposed soil samples collected, two equipment rinsate samples were collected from the hand augers. One equipment rinsate sample was collected during each sampling day.

2.3 Surface Soil Sampling

Two surface soil samples were collected and submitted for laboratory analysis at intervals of 0–2 inches and 2–6 inches. The two surface soil samples (SS-1 and SS-2) were collected within undisturbed areas of the Basin Oil property, and adjacent to soil borings SBS-2 and SBS-9, respectively (Figure 1). Soil samples collected from SS-1 and SS-2 were submitted for laboratory analysis.

As summarized in Table 1, each sample was analyzed for the following:

- Dioxins/furans
- PCBs by EPA Method 8082

In addition to the proposed surface soil samples, one rinseate sample was collected from the sampling equipment.

2.4 Monitoring Well Installation

Two offsite groundwater monitoring wells, MW-12 and MW-13, were installed along 17th Ave S and S Donovan Street to the east and south of the property, respectively (Figure 1). Each boring

was advanced to 5 feet bgs using a hand auger before advancing with a hollow-stem auger drill rig. MW-12 was advanced to 28 feet bgs before a determination was made on the interval to set the well. A water-bearing zone was observed at 18 feet bgs, and the screen for MW-12 was set from 15.45 to 25.45 feet. MW-13 was advanced to 30.5 before a determination was made on the interval to set the well. The only water-bearing zone observed was at 4.5 feet bgs, and the screen for MW-13 was set from 3.5 to 13.5 feet bgs.

Soil samples were collected every 2.5 feet, starting at 0-6 inches, for laboratory analysis. At a minimum, two soil samples from each soil boring were submitted for laboratory analysis. Only the top two intervals were analyzed, while the rest of the samples were archived. However, if field screening techniques indicated the presence of contamination, the sample collected from that interval of contamination was also analyzed. As summarized in Table 2, each sample was analyzed for the following:

- SVOCs by EPA Method 8270
- VOCs by EPA Method 8260
- PCBs by EPA Method 8082
- Eight RCRA metals by EPA Method 6020/7470/7471
- Total solids by SM 2540 B-97
- Grain size by ASTM D421/411
- TPH for the gasoline range by Ecology Method NWTPH-Gx
- TPH for the diesel range by Ecology Method NWTPH-Dx extended, with silica gel cleanup

In addition to the soil samples, two rinsate samples were collected from the hand augers.

Each monitoring well was constructed of factory sealed, 2-inch diameter, Schedule 40, polyvinyl chloride (PVC) pipe. Each well includes 10 feet of 0.010-inch slotted screen surrounded by the pre-pack 2/12 Monterey silica sand for a filter pack. The remaining annular space in the borehole around the pre-pack well screen was backfilled with 2/12 sand, up to approximately 13.5 feet bgs for MW-12 and 2.5 feet bgs for MW-13. Hydrated bentonite chips were used to backfill each monitoring well up to 2 feet bgs. Each well was completed with a watertight cap and flush-grade well vault, which was secured with concrete from ground surface to 2 feet bgs.

Following installation, each monitoring well was developed by surging the well with a stainless-steel bailer and then pumping water and any fine sediment using a whale pump. Both wells were purged dry several times due to slow recharge, and approximately 10 well volumes of groundwater were removed. Turbidity rapidly cleaned up in both wells due to the presence of pre-pack sand.

The locations and top-of-casing elevations of the new monitoring wells (MW-12 and MW-13) were surveyed by Bush, Roed & Hitchings, Inc. (Table 3).

2.5 Groundwater Sampling

The groundwater sampling event was correlated with the Port of Seattle's groundwater sampling event, and took place on the same day. Groundwater was sampled during a lower low-tide period, on May 26, 2009. During the sampling event, groundwater samples were collected from each of the two newly installed monitoring wells. Each of the monitoring wells was purged using standard low-flow procedures. Groundwater was purged and sampled using a peristaltic pump with disposable Teflon and silicon tubing.

Groundwater samples were collected and submitted to Analytical Resources Inc. (ARI) for laboratory analysis. As shown in Table 2, each groundwater sample from the first event was analyzed for the following constituents:

- SVOCs by EPA Method 8270
- VOCs by 8260
- PCBs by EPA Method 8082
- cPAHs by SIM 8270
- Eight RCRA metals (total and dissolved) by EPA Method 6020/7470/7471
- Total suspended solids by SM 2540 B-97
- TPH for the gasoline range by Ecology Method NWTPH-Gx
- TPH for the diesel range by Ecology Method NWTPH-Dx extended, with silica gel cleanup

In addition, a duplicate sample was collected for MW-12 and a rinsate sample was collected from the nitrile gloves and analyzed for phthalates. It should be noted that groundwater samples were submitted as both filtered and unfiltered for the eight RCRA metals. The groundwater samples were filtered using an in-line, 0.45-micron nitrocellulose filter.

3.0 Geology and Hydrogeology

The following discussion of results pertains to the geology and hydrogeology of the Basin Oil Property.

Subsurface soil samples were collected during drilling of ten soil borings (BSB-1, BSB-2, BSB-3, BSB-4, BSB-5, BSB-6, BSB-7, BSB-8, BSB-9, and BSB-10), and during drilling for installation of two monitoring wells (MW12 and MW-13). Based on field observations, the soil boring descriptions (Appendix A), and the results of the May 2009 groundwater monitoring event, the following observations were made regarding the geology and hydrogeology of the Basin Oil property.

Material observed in the soil boring samples appeared to be fill and native river/floodplain deposits, underlain by glacial till. The following geologic units were identified at the site (from top to bottom):

1. The shallow soils encountered from directly beneath the paving (asphalt or concrete) consisted of crushed gravel (road base) fill material. This material extends from below the pavement (asphalt/concrete) to a maximum thickness of 3 feet.
2. A layer of silt, interbedded with silty sands and sandy silts, was identified throughout the site; it is up to 8 feet in maximum thickness. The silt layer was encountered directly beneath the surface or fill material (where present).
3. A layer of fine to coarse sand was identified; this unit has a maximum thickness of at least 9 feet (identified only at BSB-1, BSB-3, BSB-4, BSB-5).

Two distinct lower units were identified:

4. A gray to olive gray silt was encountered in borings located on the southwestern corner of the property (BSB-1, BSB-2, BSB-4, BSB-9 and BSB-10) and monitoring well MW-13; it is up to a maximum thickness of 11 feet bgs.
5. A second lower unit was encountered in borings located in the northern and eastern sections of the property (BSB-3, BSB-5, BSB-6, BSB-7, BSB-9, and MW-12), consisting of a brown to dark brown medium to coarse sand and gravel material, with a maximum thickness of approximately 12 feet.

During soil boring activities, the water table was encountered at 4 to 17.5 feet bgs. As a result of this observation, monitoring wells MW-12 and MW-13 were screened from 25.45 to 15.45 feet bgs and 13.5 to 3.5 feet bgs respectively.

Overall, two main hydrogeologic units are recognized: an upper sand unit (geologic unit 3; see above) that is saturated in its lower part; and a lower sand and gravel unit (unit 5). The material forming unit 2 was mostly described as moist, and it may be considered to become locally saturated due to the interbedded sand found within the unit.

Based on the groundwater measurements collected during the May 2009 event, groundwater is expected to flow toward the northeast to the Lower Duwamish Waterway.

4.0 Analytical Results

4.1 Soil Analytical Results

The validated laboratory analysis results for soil boring samples are presented in Appendix B, and data validation reports are presented in Appendix C. For screening purposes, the sample results are compared to Model Toxics Control Act (MTCA) Method A and B soil cleanup levels, and to draft soil-to-sediment screening levels (SAIC 2006).¹ Soil-to-sediment screening levels apply to the transport of contaminants from soil to groundwater, which subsequently may be discharged directly to the LDW or which may enter a storm drain system and be discharged to the LDW via an outfall.

Chemical values that exceed these levels are highlighted in Tables 5 and 6. The following text briefly summarizes the major findings of the chemical analyses, listed by major chemical group. No analytes above the laboratory detection limits were identified in the collected equipment rinsate samples.

In general, PAH concentrations were highest near the west side of the property, near 17th Avenue S, at sample locations BSB-1 and MW-12 (Figure 1). Relatively higher concentrations of metals and petroleum hydrocarbons were observed on the northern portion of the property, at sample locations BSB-10, BSB-7 and BSB-6. Methylene chloride and acetone were generally the only VOCs detected, except at BSB-6 and BSB-10, where several VOCs were detected at low concentrations (i.e., below MTCA Method A or B soil cleanup levels).

4.1.1 Surface Soil Samples

Four surface samples were collected from two locations and were analyzed for dioxins/furans and PCBs. A summary of the surface sample analytical result exceedances is presented in Table 5.

PCBs

PCBs were not detected in the surface soil samples collected at the Basin Oil property.

¹ These draft screening levels were developed to assist in the identification of upland properties which may pose a potential risk of recontamination of sediments at Slip 4. The screening levels incorporate a number of conservative assumptions, including the absence of contaminant dilution and ample time for contaminant concentrations in soil, sediment, and groundwater to achieve equilibrium. In addition, the screening levels do not address issues of contaminant mass flux from upland to sediments nor do they address the area or volume of sediment that might be affected by upland contaminants. Because of these assumptions and uncertainties, these screening levels are most appropriately used for one-sided comparisons. If contaminant concentrations in upland soil or groundwater are below these screening levels, then it is unlikely that they will lead to exceedance of marine Sediment Management Standards. However, upland concentrations that exceed these screening levels *may or may not* pose a threat to sediments; additional site-specific information must be considered in order to make such an assessment.

Dioxins/Furans

As shown in Table 5, dioxin/furan 2,3,7,8-TCDD toxic equivalency quotients (TEQs) ranged from 0.25 to 1.6 pg/g². No samples exceeded the MTCA Method B cleanup level for dioxins/furans.

4.1.2 Soil Borings

A summary of subsurface soil analytical results is presented in Table 6. The following text briefly summarizes the major findings of the chemical analyses, listed by major chemical group.

Metals

As shown in Tables 6, samples exceeded one or more screening criterion for arsenic, chromium, copper, lead, mercury, and zinc. Arsenic exceeded the MTCA Method B soil cleanup level (0.67 mg/kg) in all samples analyzed; concentrations ranged from 0.7 to 18 mg/kg. Chromium exceed the MTCA Method A soil cleanup level (19 mg/kg) in most samples, with concentration between 1.9 and 60 mg/kg.

Copper, lead, mercury, and zinc exceeded the draft soil-to-groundwater screening levels in a subset of samples. Copper exceeded the screening level in four samples (maximum concentration of 92.4 mg/kg in boring BSB-10); lead exceeded the screening level in one sample (83 mg/kg in MW-12); mercury exceeded the screening level in 10 samples (maximum concentration 0.14 mg/kg in MW-12); and zinc exceeded the screening level in 21 samples (maximum concentration of 195 mg/kg in boring BSB-7).

PCBs

PCBs were detected in subsurface soil samples at concentrations ranging from <0.03 to 1.0 mg/kg dry weight (DW); three samples (in borings BSB-3, BSB-6, and BSB-7) exceeded the MTCA Method B cleanup level of 0.5 mg/kg DW for total PCBs, and seven additional samples exceeded the soil-to-sediment screening level of 0.065 mg/kg DW.

TPH

Gasoline-range and heavy oil (residual)-range petroleum hydrocarbons exceed Method A screening levels in two samples: BSB-6 (0-6 in) and BSB-10 (0-6 in); these were collected in the vicinity of the northern aboveground storage tank (AST) basin. Concentrations exceed the Method A Cleanup Levels by a factor of 22 for gasoline-range hydrocarbons and by a factor of 2 for heavy-range hydrocarbons.

SVOCs

PAHs exceeded the draft soil-to-sediment screening levels in borings BSB-1, BSB-6 (one compound only), BSB-7, BSB-10, and MW-12. Most detections were in the 0-6 inch soil interval. The highest concentrations were found in MW-12 (0-6 inches), where PAH

² Results cited are for TEQs calculated using one-half the detection limit for non-detected congeners.

concentrations were up to two orders of magnitude higher than the screening levels. MTCA Method A and B soil cleanup levels for benzo(a)pyrene were exceeded in MW-12.

BEHP was detected in four samples at concentrations above the soil-to-sediment screening levels, with a maximum concentration of 1.9 mg/kg DW in boring BSB-10.

VOCs

Carbazole exceeded the MTCA Method B soil cleanup level in one sample (MW-12). Benzene exceeded the MTCA Method B soil cleanup level in one sample (BSB-10).

4.2 Groundwater Analytical Results

The validated laboratory analysis results for groundwater samples are presented in Appendix B and the data validation reports are presented in Appendix C. For screening purposes, the sample results were compared to MTCA Method A and B groundwater cleanup levels and to draft groundwater-to-sediment screening levels (SAIC 2006).³

Chemical values that exceed these levels are highlighted in Table 7. The following text briefly summarizes the major findings of the chemical analyses, listed by major chemical group. No analytes above the laboratory detection limits were identified in the collected equipment rinsewater samples.

Note that non-aqueous phase liquid (NAPL) was not encountered during the sampling of any of the monitoring wells.

4.2.1 Groundwater Samples

Metals

As shown in Table 7, results for all samples exceed the Method A and B groundwater cleanup levels for arsenic. The maximum concentration of arsenic (18.6 ug/L) was identified in a field duplicate sample collected from monitoring well MW-12.

PCBs

PCBs were not detected in any groundwater samples from Basin Oil.

³ These draft screening levels were developed to assist in the identification of upland properties which may pose a potential risk of recontamination of sediments at Slip 4. The screening levels incorporate a number of conservative assumptions, including the absence of contaminant dilution and ample time for contaminant concentrations in soil, sediment, and groundwater to achieve equilibrium. In addition, the screening levels do not address issues of contaminant mass flux from upland to sediments nor do they address the area or volume of sediment that might be affected by upland contaminants. Because of these assumptions and uncertainties, these screening levels are most appropriately used for one-sided comparisons. If contaminant concentrations in upland soil or groundwater are below these screening levels, then it is unlikely that they will lead to exceedance of marine Sediment Management Standards. However, upland concentrations that exceed these screening levels *may or may not* pose a threat to sediments; additional site-specific information must be considered in order to make such an assessment.

SVOC

SVOCs were not detected in any groundwater samples from Basin Oil.

TPH

TPH was not detected in any groundwater samples from Basin Oil.

VOCs

Chloromethane, acetone, and chloroform were detected in groundwater samples, at concentrations below the MTCA Method B groundwater cleanup levels.

4.2.2 Trip Blank TB-052609

Trichloroethene, cis-1,2-dichloroethene, and tetrachloroethene exceeded the Method B groundwater cleanup level in the quality control sample TB-052609. The trip blank was subsequently re-analyzed (outside the method recommended holding times), and these compounds were not detected (<0.2 ug/L). Chloromethane was detected in the trip blank re-analysis at 0.3 ug/L, just above the detection limit.

5.0 Summary and Conclusions

As part of the May 2009 site characterization study described in this report, samples were collected from 10 soil borings and two groundwater monitoring wells at and adjacent to the Basin Oil property (Figure 1). Results indicate that:

- One or more soil samples exceeded MTCA Method A or Method B soil cleanup levels for the following chemicals: arsenic, chromium, heavy oil, gasoline-range organics, benzo(a)pyrene, benzene, and carbazole.
- Groundwater samples from both wells exceeded the MTCA Method B groundwater cleanup level for arsenic.
- Additional chemicals exceeded draft soil-to-sediment screening levels in one or more soil samples collected at the Basin Oil property: copper, lead, mercury, zinc, total PCBs, various PAHs, butyl benzyl phthalate, BEHP, and dibenzofuran.
- Chlorinated solvents were not detected in soil samples, and were detected at low concentrations (below the MTCA Method B groundwater cleanup levels) in groundwater samples.
- The Basin Oil property does not currently appear to represent a source of chlorinated solvents to Terminal 117, located downgradient of Basin Oil.
- Exceedances of MTCA soil cleanup levels and soil-to-sediment screening levels are localized, with highest PAH concentrations in the 0-6 inch soil interval on the west side of the property (BSB-1 and MW-12), and the highest petroleum hydrocarbon concentrations in the 0-6 inch soil interval in the northern portion of the property (near BSB-6, BSB-7, and BSB-10). Metals exceeded MTCA Method A or B soil cleanup levels or soil-to-sediment screening levels throughout the property.
- Because (a) the site is small, (b) elevated soil contaminant concentrations are localized and near the surface, and (c) no contaminants (except arsenic) were detected in groundwater at concentrations above screening levels, the Basin Oil property is not believed to represent a significant potential source of contaminants to Terminal 117 or Dallas Avenue.

6.0 References

- Ecology. 2007. Hazardous Waste & Toxics Reduction Program Compliance Report. Site Inspection: Basin Oil. Washington State Department of Ecology. August 15, 2007.
- Ecology. 2008. Letter from Barbara Smith, Washington State Department of Ecology, to Mr. Terry Drexler, Re: Scope of Work and Schedule due May 4, 2008 – Confirmational Sampling at Basin Oil, 8661 Dallas Ave S, Seattle, WA 98108-4854. April 25, 2008.
- SAIC. 2006. Soil and Groundwater Screening Criteria, Source Control Action Plan, Slip 4, Lower Duwamish Waterway. Prepared for Washington State Department of Ecology. Prepared by Science Applications International Corporation (SAIC), Bothell, WA. August 2006 (Revised February 2007).
- SAIC. 2009. Lower Duwamish Waterway, Basin Oil, Seattle, Washington: Basin Oil Sampling – Sampling and Analysis Plan. Final. Prepared for Washington State Department of Ecology by Science Applications International Corporation. May 2009.




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LIMITATIONS

As part of this report, SAIC's investigation was restricted to collection and analysis of a limited number of environmental samples, visual observations and field data, in addition to summarizing available information from previous site documents. Because the current investigation consisted of evaluating a limited supply of information, SAIC may not have identified all potential items of concern. This report is intended to be used in its entirety; taking or using excerpts from this report is discouraged.



Legend

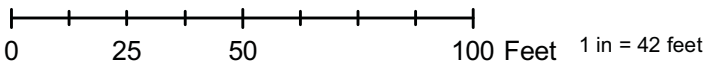
-  Soil Boring
-  Monitoring Well
-  Parcel Boundary

Note: Aerial image is from 2009

Figure 1. Soil Boring and Monitoring Well Locations



Projection: Lambert Conformal Conic
Datum: NAD83



**Table 1. Summary of Soil Laboratory Analyses
Basin Oil Property**

Soil Boring/ Groundwater Monitoring Well ID	Sample Depth (feet bgs)	Sample Date	Dioxin/Furans (SW 8290/1631)	VOCs (SW 8260)	SVOCs (SW 8270)	PCBs (SW 8082)	Gasoline-Range Hydrocarbons (NWTPH-Gx)	Diesel and Motor Oil- Range Hydrocarbons (NWTPH-Dx)	Total and Dissolved Metals (EPA 7470/7471/6010)	Total Solids (SM 2540 B-97)	Grain Size (ASTM D421/422)
BSB-1	0-0.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-1	15	5/12/2009		x	x	x	x	x	x	x	x
BSB-2	0-0.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-2	12.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-3	0-0.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-3	10	5/12/2009				x					
BSB-3	12.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-3	15	5/12/2009		x	x	x	x	x	x	x	x
BSB-4	0-0.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-4	12.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-5	0-0.5	5/12/2009		x	x	x	x	x	x	x	x
BSB-5	5	5/12/2009		x	x	x	x	x	x	x	x
BSB-5	12.5	5/12/2009				x					
BSB-5	15	5/12/2009		x	x	x	x	x	x	x	x
BSB-6	0-0.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-6	2.5	5/13/2009		x	x		x	x			
BSB-6	15	5/13/2009		x	x	x	x	x	x	x	x
BSB-7	0-0.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-7	2.5	5/13/2009					x	x			
BSB-7	15	5/13/2009		x	x	x	x	x	x	x	x
BSB-8	0-0.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-8	2.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-8	15	5/13/2009		x	x	x	x	x	x	x	x
BSB-9	0-0.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-9	15	5/13/2009		x	x	x	x	x	x	x	x
BSB-10	0-0.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-10	2.5	5/13/2009		x	x	x	x	x	x	x	x
BSB-10	15	5/13/2009		x	x	x	x	x	x	x	x
MW-12	0-0.5	5/14/2009		x	x	x	x	x	x	x	x
MW-12	2.5	5/14/2009		x	x	x	x	x	x	x	x
MW-13	0-0.5	5/14/2009		x	x	x	x	x	x	x	x
MW-13	2.5	5/14/2009		x	x	x	x	x	x	x	x
SS-1	0-2 inches	5/12/2009	x			x					
SS-1	2-6 inches	5/12/2009	x			x					
SS-2	0-2 inches	5/13/2009	x			x					
SS-2	2-6 inches	5/13/2009	x			x					

VOC = volatile organic compound

SVOC = semivolatile organic compound

PCB = polychlorinated biphenyl

Total Metals includes: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc

x = Indicates one or more analyte was measured on the date provided

**Table 2. Summary of Groundwater Laboratory Analyses
Basin Oil Property**

Groundwater Monitoring Well ID	Sample Date	Dioxin/Furans (SW 8290/1631)	VOCs (SW 8260)	SVOCs (SW 8270)	PCBs (SW 8082)	cPAH (SIM 8270)	Gasoline-Range Hydrocarbons (NWTPH-Gx)	Diesel and Motor Oil-Range Hydrocarbons (NWTPH-Dx)	Total Metals (EPA 7470/7471/6010)	Dissolved Metals (EPA 7470/7471/6010)	Total Suspended Solids (SM 2540 B-97)
GW-12-052609	5/26/2009		x	x	x		x	x	x	x	x
GW-13-052609	5/26/2009		x	x	x		x	x	x	x	x
GW-052609-FD	5/26/2009		x	x	x		x	x	x	x	x
TB-052609	5/26/2010		x	x			x				
ER-051209-1	5/12/2009	x			x						
ER-051209-2	5/12/2009		x	x	x			x	x		
ER-051309-1	5/13/2009		x	x	x			x	x		
ER-051509-1	5/15/2009		x	x	x			x	x		
ER-052609	5/26/2009			x							

VOC = volatile organic compound

SVOC = semivolatile organic compound

PCB = polychlorinated biphenyl

Total Metals includes: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc

x = Indicates one or more analyte was measured on the date provided

**Table 3. Groundwater Elevation Data
Basin Oil Property**

Well/Soil ID	Sample Date	Depth-to-Water Collection Time	Ground Elevation (NAVD 88)	Top of Casing (TOC)	DTW (feet below TOC)	GW Elevation (feet above NAVD 88)	GW Elevation (feet above MLLW)	Coordinates (Northing / Easting)
Basin Oil								
MW-12	5/26/09	1235	22.07	21.82	5.37	16.45	18.83	195325.33 / 1275176.87
MW-13	5/26/09	1245	25.73	25.38	4.30	21.08	23.46	195239.60 / 1275198.03
T-117								
MW-01	5/26/09	1250	--	21.87	8.09	--	13.78	--
MW-02	5/26/09	1223	--	15.48	8.51	--	6.97	--
MW-03	5/26/09	1300	--	16.45	10.45	--	6.00	--
MW-04R	5/26/09	1237	--	18.86	11.75	--	7.11	--
MW-05R	5/26/09	1232	--	17.33	11.28	--	6.05	--
MW-06	5/26/09	1227	--	16.32	12.66	--	3.66	--
MW-07	5/26/09	1250	--	19.85	16.38	--	3.47	--
MW-08R	5/26/09	1243	--	19.40	15.29	--	4.11	--
MW-9	5/26/09	1223	--	23.40	14.49	--	8.91	--
MW-10	5/26/09	1228	--	22.83	13.39	--	9.44	--
MW-11	5/26/09	1226	--	23.07	13.63	--	9.44	--

Basin Oil Ground Elevation = NAVD 88 (Bush, Roed & Hitching, Inc. 2009)

T-117 Elevation data provided by AECOM 2009

Mean Low Low Water (MLLW) = NAVD + 2.38 feet

All values measured in feet

**Table 4. Field Measurements for Groundwater Samples
Basin Oil Property**

Sample	Date / Time	Volume Purged (L)	Depth to Water (ft)	Temperature (C°)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
GW-12-052609 (MW-12)	5/26/09 / 1330	0.5	5.87	21.33	8.3	0.786	3.51	113.6	--
	5/26/09 / 1333	0.58	5.96	21.73	8.29	0.786	3.56	112.4	--
	5/26/09 / 1336	0.60	6.10	21.67	8.31	0.788	3.66	111.1	--
	5/26/09 / 1339	0.64	6.18	20.76	8.33	0.799	3.83	109.6	--
	5/26/09 / 1342	0.70	6.27	19.71	8.35	0.799	3.85	108.3	--
	5/26/09 / 1345	0.75	6.33	19.34	8.35	0.792	3.79	107.7	--
	5/26/09 / 1348	0.8	6.39	19.35	8.30	0.784	3.47	110.1	--
	5/26/09 / 1351	0.85	6.46	19.35	8.28	0.782	3.25	110.1	--
	5/26/09 / 1354	0.90	6.54	19.70	8.29	0.782	3.19	107.8	--
	5/26/09 / 1357	1	6.63	19.75	8.30	0.782	3.22	106.5	--
	5/26/09 / 1400	1.10	6.69	19.70	8.32	0.785	3.35	105.7	90.6
	5/26/09 / 1403	--	6.72	--	--	--	--	--	90.6
	GW-13-052609 (MW-13)	5/26/09 / 1610	0.5	4.50	20.71	7.29	2.034	5.29	90.5
5/26/09 / 1613		0.65	4.50	21.07	7.38	2.030	4.65	66.8	Clear
5/26/09 / 1616		0.80	4.50	21.46	7.35	2.031	4.48	82.1	Clear
5/26/09 / 1619		0.95	4.51	21.81	7.38	2.032	4.09	88.5	Clear
5/26/09 / 1622		1.10	4.52	22.14	7.41	2.033	3.95	91.3	Clear
5/26/09 / 1625		1.25	4.53	22.32	7.06	2.036	4.10	90.7	Clear
5/26/09 / 1628		1.4	4.54	22.55	7.48	2.036	3.97	87.6	Clear
5/26/09 / 1631		1.55	4.55	22.65	7.51	2.037	3.96	84.4	Clear
5/26/09 / 1634		1.70	4.56	22.74	7.53	2.038	3.90	74.7	Clear
5/26/09 / 1637		1.85	4.58	22.77	7.52	2.040	3.95	73.5	Clear
5/26/09 / 1640		2.00	4.59	22.71	7.55	2.041	3.98	73.4	Clear
5/26/09 / 1643		2.15	4.60	22.81	7.56	2.048	4.01	73.3	Clear

L = Liters

ft = feet

C° = degree Celcius

mS = milliSiemens per centimeter

mg/L = milligrams per Liter

mVolts = millivolts

NTU = Nephelometric Turbidity Unit

(--) not measured

**Table 5. Sampling Results: Surface Soil
Basin Oil Property**

Group	Parameter	MTCA Method A	MTCA Method B	Sediment Screening Level ^A	SS-1	SS-1	SS-2	SS-2
					0-2 inch 5/12/2009	2-6 inch 5/12/2009	0-2 inch 5/13/2009	2-6 inch 5/13/2009
PCBs (mg/kg)	Aroclor 1221	--	--	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1232	--	--	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1242	--	--	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1016	--	5.6	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1248	--	--	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1254	--	1.6	--	0.032 U	0.032 U	0.032 U	0.032 U
	Aroclor 1260	--	--	--	0.032 U	0.032 U	0.032 U	0.032 U
	Total PCBs	1.0	0.5	0.065	0.032 U	0.032 U	0.032 U	0.032 U
Dioxin/ Furan (pg/g)	2,3,7,8-TCDD	--	--	--	0.225 J	0.279 J	0.117 U	0.0899 U
	1,2,3,7,8-PECDD	--	--	--	0.4 J	0.251 U	0.361 J	0.154 U
	1,2,3,4,7,8-HXCDD	--	--	--	0.519 J	0.182 U	0.384 J	0.173 U
	1,2,3,6,7,8-HXCDD	--	--	--	2.19 J	0.44 J	1.09 J	0.251 U
	1,2,3,7,8,9-HXCDD	--	--	--	1.34 J	0.509 J	0.955 J	0.232 U
	1,2,3,4,6,7,8-HPCDD	--	--	--	36.4	5.54	25	2.37 J
	OCDD	--	--	--	223	42.9	181	14.4
	2,3,7,8-TCDF	--	--	--	0.137 U	0.0528 U	0.649	0.076 U
	1,2,3,7,8-PECDF	--	--	--	0.146 U	0.0608 U	0.258 J	0.164 U
	2,3,4,7,8-PECDF	--	--	--	0.184 U	0.0795 U	0.58 J	0.214 U
	1,2,3,4,7,8-HXCDF	--	--	--	0.213 J	0.0512 U	0.454 J	0.0829 U
	1,2,3,6,7,8-HXCDF	--	--	--	0.189 J	0.056 U	0.54 J	0.0939 U
	2,3,4,6,7,8-HXCDF	--	--	--	0.191 J	0.0509 U	0.758 J	0.087 U
	1,2,3,7,8,9-HXCDF	--	--	--	0.103 U	0.0851 U	0.183 J	0.142 U
	1,2,3,4,6,7,8-HPCDF	--	--	--	2.8	0.367 J	4.94	0.324 J
	1,2,3,4,7,8,9-HPCDF	--	--	--	0.223 U	0.0918 U	0.297 J	0.102 U
	OCDF	--	--	--	2.92 J	0.464 U	4.79	0.349 U
	TEQ 0 DL	--	11	--	1.55	0.45	1.40	0.03
	TEQ 1/2 DL	--	11	--	1.59	0.61	1.46	0.25
	TEQ 1 DL	--	11	--	1.63	0.77	1.52	0.46

Detections are shown in **bold** text.

^A SAIC 2006; draft soil-to-sediment screening levels based on Sediment Management Standards (SMS) Cleanup Screening Level (CSL) values (SAIC 2006).

TEQ = Toxic Equivalency Quotient

DL = Detection Limit

Table 6: Sampling Results: Soil Borings
Basin Oil Property
 (All concentrations in mg/kg DW)

Parameter	MTCA Method A	MTCA Method B	Draft Soil-to- Sediment Screening Level ^A	BSB-1	BSB-1	BSB-2	BSB-2	BSB-3	BSB-3	BSB-3	BSB-3	BSB-4	BSB-4	BSB-5	BSB-5	BSB-5	BSB-5	BSB-6	BSB-6	BSB-6	BSB-7	
				0-6 inch	15 feet	0-6 inch	12.5 feet	0-6 inch	10 feet	12.5 feet	15 feet	0-6 inch	12.5 feet	0-6 inch	12.5 feet	0-6 inch	5 feet	12.5 feet	15 feet	0-6 inch	2.5 feet	15 feet
				5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/12/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009
Metals																						
Arsenic	20	0.67	590	3.1	3	3.2	2.2	7.2	--	3.1	3.9	4.6	2.4	6.5	0.7	NA	2.9	8.3 J	NA	1.4 J	7.5 J	
Beryllium	--	160	--	0.1	0.2	0.1	0.2	0.3	--	0.1	0.2	0.2	0.2	0.2	0.1 U	NA	0.2	0.1 U	NA	0.1 U	0.1	
Cadmium	2.0	80	1.7	0.2 U	0.2 U	0.2 U	0.2 U	0.3	--	0.2 U	0.2 U	0.2 U	0.2 U	0.4	0.2 U	NA	0.2 U	0.4	NA	0.2 U	0.6	
Chromium	19	240	270	19.9	29.2	25.4	33.5	18	--	35.9	30.4	18.3	35	31.5	13.9	NA	19.7	45.8 J	NA	11.3 J	23.9 J	
Copper	--	3,000	39	23.7	19.5	13.9	19.5	21.9	--	12.6	11.9	26.3	16.9	29.1	12.1	NA	13.5	48.3 J	NA	12.2 J	52.3 J	
Lead	250	--	67	8	2	2 U	2.0	21	--	2 U	2 U	6.0	2 U	35	2 U	NA	2 U	21	NA	2 U	18	
Mercury	2.0	24	0.03	0.05	0.03	0.04	0.03	0.09	--	0.03 U	0.03	0.06	0.03	0.10	0.02 U	NA	0.02	0.07	NA	0.02 U	0.03	
Nickel	--	1,600	--	11	35	29	41	16	--	27	27	12	41	15	6.0	NA	22	29 J	NA	8 J	40 J	
Zinc	--	24,000	38	48 J	45 J	39 J	40 J	65 J	--	32 J	30 J	40 J	41 J	80 J	25 J	NA	32 J	87	NA	41	195	
PCBs																						
Aroclor 1242	--	--	--	0.031 U	0.03 U	0.033 U	0.032 U	0.032 U	0.031 U	0.16 U	0.032 U	0.031 U	0.031 U	0.031 U	0.033 U	0.031 U	0.032 U	0.16 U	NA	0.032 U	0.16 U	
Aroclor 1254	--	1.6	0.065	0.031 U	0.03 U	0.033 U	0.032 U	0.032 U	0.031 U	0.16 U	0.032 U	0.031 U	0.031 U	0.031 U	0.033 U	0.031 U	0.032 U	0.16 U	NA	0.032 U	0.16 U	
Aroclor 1260	--	--	0.065	0.096	0.03 U	0.033 U	0.032 U	0.032 U	0.031 U	1.0	0.032 U	0.15	0.031 U	0.12	0.033 U	0.031 U	0.032 U	0.56	NA	0.032 U	0.99	
Total PCBs	1.0	0.5	0.065	0.096	0.03 U	0.033 U	0.032 U	0.032 U	0.031 U	1.0	0.032 U	0.15	0.031 U	0.12	0.033 U	0.031 U	0.032 U	0.56	NA	0.032 U	0.99	
Petroleum Hydrocarbons																						
Diesel Range Organics	2000	--	--	58	5.2 U	5.5 U	5.3 U	6.2 U	--	6 U	6 U	56	5.4 U	36	5 U	NA	5.4 U	900	6.2 U	5.6 U	430	
Heavy Oil	2000	--	--	240	10 U	11 U	11 U	35	--	12 U	12 U	64	11 U	150	10 U	NA	11 U	840	36	11 U	470	
Gasoline Range Organics	30	--	--	6.7 U	5.6 U	6 U	5.4 U	7.8 U	--	5.9 U	6.7 U	7.1 U	5.3 U	6.7 U	5.7 U	NA	7.1 U	250	9.7 J	8.4 U	1100	
Semivolatile Organic Compounds (SVOCs)																						
Naphthalene	5.0	1,600	0.2	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.6	
Acenaphthene	--	4,800	0.06	0.21	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.11	
Fluorene	--	3,200	0.081	0.15	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.2	
Phenanthrene	--	--	0.49	1.7	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.26	
Anthracene	--	24,000	1.2	0.33	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
1-Methylnaphthalene	--	--	--	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.20	NA	0.063 U	1.0	
2-Methylnaphthalene	--	--	0.073	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.22	NA	0.063 U	1.3	
Fluoranthene	--	3,200	1.2	2.4	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Pyrene	--	2,400	1.4	1.6	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Benzo(a)anthracene	--	--	0.27	0.93	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Chrysene	--	--	0.46	1.0	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Benzo(b)fluoranthene	--	--	0.45	0.89	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Benzo(k)fluoranthene	--	--	0.45	0.78	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Benzo(a)pyrene	0.1	0.14	0.21	0.98	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Indeno(1,2,3-cd)pyrene	--	--	0.088	0.5	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Dibenz(a,h)anthracene	--	--	0.033	0.14	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Benzo(g,h,i)perylene	--	--	0.078	0.53	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Butylbenzylphthalate	--	16,000	0.066	0.06 U	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
bis(2-Ethylhexyl)phthalate	71	1,600	0.078	0.06	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.28	0.058 U	NA	0.063 U	1.0	NA	0.063 U	0.58	
Dibenzofuran	--	160	0.059	0.071	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.076	
Volatile Organic Compounds (VOCs)																						
Ethylbenzene	6	8,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0018	NA	0.001 U	0.6 U	
m, p-Xylene	--	160,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0039	NA	0.001 U	14	
o-Xylene	--	160,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0068	NA	0.001 U	4.0	
1,3,5-Trimethylbenzene	--	4,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0093 J	NA	0.001 U	5.4	
1,2,4-Trimethylbenzene	--	4,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.58	NA	0.001 U	13	
Isopropylbenzene	--	--	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.013 J	NA	0.001 U	0.6 U	
n-Propylbenzene	--	--	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.029 J	NA	0.001 U	0.6 U	
sec-Butylbenzene	--	--	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0094 J	NA	0.001 U	0.6 U	
4-Isopropyltoluene	--	--	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.017 J	NA	0.001 U	0.6 U	
n-Butylbenzene	--	--	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.016 J	NA	0.001 U	0.6 U	
Carbazole	--	50	--	0.23	0.058 U	0.063 U	0.06 U	0.066 U	--	0.06 U	0.06 U	0.061 U	0.06 U	0.059 U	0.058 U	NA	0.063 U	0.18 U	NA	0.063 U	0.065 U	
Methylene Chloride	0.02	130	--	0.0044	0.0025	0.0028	0.003	0.0052	--	0.018	0.0042	0.0047	0.002	0.0046	0.003	NA	0.0024	0.0061	NA	0.0031	12 U	
Acetone	--	8,000	--	0.13	0.036	0.031	0.04	0.29	--	0.04	0.037	0.15	0.030	0.19	0.046	NA	0.024	0.12	NA	0.026	3 U	
Carbon Disulfide	--	8,000	--	0.0012 U	0.0008 U	0.0009 U	0.009 U	0.0014 U	--	0.001												

Table 6: Sampling Results: Soil Borings
Basin Oil Property
 (All concentrations in mg/kg DW)

Parameter	MTCA Method A	MTCA Method B	Draft Soil-to- Sediment Screening Level ^A	BSB-1	BSB-1	BSB-2	BSB-2	BSB-3	BSB-3	BSB-3	BSB-3	BSB-4	BSB-4	BSB-5	BSB-5	BSB-5	BSB-5	BSB-6	BSB-6	BSB-6	BSB-7
				0-6 inch 5/12/2009	15 feet 5/12/2009	0-6 inch 5/12/2009	12.5 feet 5/12/2009	0-6 inch 5/12/2009	10 feet 5/12/2009	12.5 feet 5/12/2009	15 feet 5/12/2009	0-6 inch 5/12/2009	12.5 feet 5/12/2009	0-6 inch 5/12/2009	12.5 feet 5/12/2009	0-6 inch 5/12/2009	5 feet 5/12/2009	12.5 feet 5/12/2009	15 feet 5/12/2009	0-6 inch 5/13/2009	2.5 feet 5/13/2009
2-Butanone	--	--	--	0.0093	0.004 U	0.0044 U	0.0046 U	0.038	--	0.0054 U	0.0054 U	0.0073	0.0038 U	0.014	0.0048 U	NA	0.0046 U	0.0046 U	NA	0.0053 U	3 U
Benzene	0.03	18	--	0.0064	0.0008 U	0.0009 U	0.0009 U	0.0091	--	0.0011 U	0.0011 U	0.0013	0.0008 U	0.0045	0.001 U	NA	0.0009 U	0.0019	NA	0.001 U	0.6 U
2-Hexanone	--	--	--	0.0058 U	0.004 U	0.0044 U	0.0046 U	0.0068 U	--	0.0054 U	0.0054 U	0.0061 U	0.0038 U	0.0057 U	0.0048 U	NA	0.0046 U	0.0046 U	NA	0.0053 U	3 U
Tetrachloroethene	0.05	1.9	--	0.0012 U	0.0008 U	0.0009 U	0.0009 U	0.0014 U	--	0.0011 U	0.0011 U	0.0012 U	0.0008 U	0.0018	0.001 U	NA	0.001	0.0009 U	NA	0.001 U	0.6 U
Toluene	7	6,400	--	0.0012 U	0.0008 U	0.0009 U	0.0009 U	0.003	--	0.0011	0.0011 U	0.0012 U	0.0008 U	0.0011 U	0.001 U	NA	0.0009 U	0.0009 U	NA	0.001 U	0.6 U
Other Parameters																					
Total Solids (% DW)	--	--	--	80.4	90.2	84.6	84.7	74.3		84.7	80.8	77.7	87.4	79.6	90.2	NA	89.4	87.5	NA	86.5	93.5
Grain Size (%)																					
Gravel	--	--	--	7.2	13	21.2	27.8	0.1 U		36.4	12.7	2.4	25.7	1	0.1 U	NA	67.9	59.8	NA	2.4	60.9
Sand	--	--	--	13.5	46	49.8	39.8	2.8		51	80.6	6.6	40	15.3	67.2	NA	25	27	NA	96.1	32.6
Silt	--	--	--	54.6	25.8	21.8	17.8	57.2		5.4	2.4	57.8	17.8	74.4	27.5	NA	4	8.8	NA	1.5	3.1
Clay	--	--	--	24.6	15	7.3	14.6	39.7		7.2	4.2	33.2	16.7	9.3	5.2	NA	3.1	4.2	NA	0.1 U	3.6

Table includes all parameters detected in soil in at least one sample during this study. Detections are shown in **bold** text.

Yellow shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels or draft soil-to-sediment screening levels (SAIC 2006).

U = Parameter not detected at the stated reporting level
 J = Estimated concentration

^A SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated conditions.

Table 6: Sampling Results: Soil Borings
Basin Oil Property
 (All concentrations in mg/kg DW)

Parameter	MTCA		Draft Soil-to-Sediment Screening Level ^A	BSB-7	BSB-7	BSB-8	BSB-8	BSB-8	BSB-9	BSB-9	BSB-10	BSB-10	BSB-10	MW-12	MW-12	MW-13	MW-13
	Method A	Method B		2.5 feet	15 feet	0-6 inch	2.5 feet	15 feet	0-6 inch	15 feet	0-6 inch	2.5 feet	15 feet	0-6 inch	2.5 feet	0-6 inch	2.5 feet
				5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/13/2009	5/14/2009	5/14/2009	5/14/2009	5/14/2009
Metals																	
Arsenic	20	0.67	590	NA	1.0 J	2.9 J	2.3 J	0.9 J	3.8 J	2.2 J	2.3 J	16 J	2.7 J	18 J	4.2 J	4.3 J	4.1 J
Beryllium	--	160	--	NA	0.1 U	0.1	0.1 U	0.1	0.2	0.2	0.3 U	0.1 U	0.2	0.3	0.3	0.2	0.2
Cadmium	2.0	80	1.7	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.7	0.3 U	0.2 U	0.2 U
Chromium	19	240	270	NA	1.9 J	20.8 J	7.9 J	11.2 J	15.1 J	33.9 J	60 J	11.2 J	21.7 J	22.5	18.7	54.1	49.1
Copper	--	3,000	39	NA	2.1 J	40.3 J	9.5 J	12.8 J	12.3 J	17.4 J	92.4 J	13.6 J	14.8 J	36.9	24.8	29.3	24.3
Lead	250	--	67	NA	2 U	4.0	2.0	2 U	3.0	2.0	14	3.0	2 U	83 J	5.0 J	6.0 J	3.0 J
Mercury	2.0	24	0.03	NA	0.02 U	0.02 U	0.03 U	0.02 U	0.03	0.03	0.03	0.03	0.03 U	0.14	0.04	0.06	0.05
Nickel	--	1,600	--	NA	3.0 J	20 J	9.0 J	9.0 J	9.0 J	38 J	42 J	7.0 J	29 J	18	12	54	49
Zinc	--	24,000	38	NA	6.0	62	27	39	43	51	88	40	36	133	42	50	50
PCBs																	
Aroclor 1242	--	--	--	NA	0.031 U	0.032 U	0.031 U	0.031 U	0.032 U	0.033 U	0.031 U	0.032 U	0.032 U	0.066	0.032 U	0.032 U	0.031 U
Aroclor 1254	--	1.6	0.065	NA	0.031 U	0.032 U	0.031 U	0.031 U	0.032 U	0.033 U	0.077 J	0.032 U	0.032 U	0.066	0.032 U	0.032 U	0.031 U
Aroclor 1260	--	--	0.065	NA	0.031 U	0.11	0.061	0.031 U	0.064	0.033 U	0.14	0.038	0.032 U	0.14	0.032 U	0.15	0.031 U
Total PCBs	1.0	0.5	0.065	NA	0.031 U	0.11	0.061	0.031 U	0.064	0.033 U	0.22	0.038	0.032 U	0.27	0.032 U	0.15	0.031 U
Petroleum Hydrocarbons																	
Diesel Range Organics	2000	--	--	7.8	5.3 U	740	5.2 U	5 U	8.7	5.3 U	1800	5.3 U	5.3 U	520	6.5 U	41	6.3 U
Heavy Oil	2000	--	--	52	11 U	1300	10 U	10 U	40	11 U	5200	18	11 U	350	13 U	77	13 U
Gasoline Range Organics	30	--	--	7.8 UJ	7.2 U	6 U	7.6 U	6.2 U	8.2 U	4.7 U	660	8.6 U	6.8 U	6.2 U	7.8 U	6.8 U	7 U
Semivolatile Organic Compounds (SVOCs)																	
Naphthalene	5.0	1,600	0.2	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.94	0.066 U	0.064 U	3.7	0.062 U	0.062 U	0.062 U
Acenaphthene	--	4,800	0.06	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.26	0.066 U	0.064 U	55	0.062 U	0.062 U	0.062 U
Fluorene	--	3,200	0.081	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.5	0.066 U	0.064 U	44	0.062 U	0.062 U	0.062 U
Phenanthrene	--	--	0.49	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.85	0.066 U	0.064 U	460	0.38	0.062 U	0.062 U
Anthracene	--	24,000	1.2	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	780	0.064	0.062 U	0.062 U
1-Methylnaphthalene	--	--	--	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	1.6	0.066 U	0.064 U	4.9	0.062 U	0.062 U	0.062 U
2-Methylnaphthalene	--	--	0.073	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	2.7	0.066 U	0.064 U	4.8	0.062 U	0.062 U	0.062 U
Fluoranthene	--	3,200	1.2	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	600	0.76	0.062 U	0.062 U
Pyrene	--	2,400	1.4	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.23	0.066 U	0.064 U	560	0.5	0.062 U	0.062 U
Benzo(a)anthracene	--	--	0.27	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	240	0.25	0.062 U	0.062 U
Chrysene	--	--	0.46	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.24	0.066 U	0.064 U	250	0.27	0.062 U	0.062 U
Benzo(b)fluoranthene	--	--	0.45	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	230	0.32	0.062 U	0.062 U
Benzo(k)fluoranthene	--	--	0.45	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	140	0.22	0.062 U	0.062 U
Benzo(a)pyrene	0.1	0.14	0.21	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	240	0.28	0.062 U	0.062 U
Indeno(1,2,3-cd)pyrene	--	--	0.088	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	66	0.089	0.062 U	0.062 U
Dibenz(a,h)anthracene	--	--	0.033	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	23	0.062 U	0.062 U	0.062 U
Benzo(g,h,i)perylene	--	--	0.078	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	54	0.086	0.062 U	0.062 U
Butylbenzylphthalate	--	16,000	0.066	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.27	0.066 U	0.064 U	1.8 U	0.062 U	0.062 U	0.062 U
bis(2-Ethylhexyl)phthalate	71	1,600	0.078	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	1.9	0.066 U	0.064 U	1.8 U	0.062 U	0.062 U	0.062 U
Dibenzofuran	--	160	0.059	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	19	0.062 U	0.062 U	0.062 U
Volatile Organic Compounds (VOCs)																	
Ethylbenzene	6	8,000	--	0.0014 UJ	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	2.1 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
m, p-Xylene	--	160,000	--	0.0014 UJ	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	10 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
o-Xylene	--	160,000	--	0.0014 UJ	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	3.9 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
1,3,5-Trimethylbenzene	--	4,000	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	2.0 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
1,2,4-Trimethylbenzene	--	4,000	--	0.0014 UJ	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	6.2 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
Isopropylbenzene	--	--	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.12 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
n-Propylbenzene	--	--	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.63 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
sec-Butylbenzene	--	--	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.0012 UJ	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
4-Isopropyltoluene	--	--	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.0036	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
n-Butylbenzene	--	--	--	0.0014 UJ	0.0011 U	0.001 UJ	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.54 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
Carbazole	--	50	--	NA	0.06 U	0.17 U	0.061 U	0.063 U	0.064 U	0.058 U	0.17 U	0.066 U	0.064 U	55	0.062 U	0.062 U	0.062 U
Methylene Chloride	0.02	130	--	0.0071 J	0.0036	0.005	0.0076	0.0036	0.0035	0.0021 U	0.0023 UJ	0.0031	0.0036	0.0036	0.0061	0.0055	0.0046
Acetone	--	8,000	--	0.5 J	0.033	0.072	0.072	0.028	0.11	0.029	0.0058 UJ	0.045	0.032	0.16	0.049	0.032	0.03
Carbon Disulfide	--	8,000	--	0.0014 UJ	0.0011 U	0.0019	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.015 J	0.0013 U	0.0012 U	0.0025	0.0011 U	0.0011 U	0.0014 U

Table 6: Sampling Results: Soil Borings
Basin Oil Property
 (All concentrations in mg/kg DW)

Parameter	MTCA Method A	MTCA Method B	Draft Soil-to- Sediment Screening Level ^A	BSB-7	BSB-7	BSB-8	BSB-8	BSB-8	BSB-9	BSB-9	BSB-10	BSB-10	BSB-10	MW-12	MW-12	MW-13	MW-13
				2.5 feet 5/13/2009	15 feet 5/13/2009	0-6 inch 5/13/2009	2.5 feet 5/13/2009	15 feet 5/13/2009	0-6 inch 5/13/2009	15 feet 5/13/2009	0-6 inch 5/13/2009	15 feet 5/13/2009	0-6 inch 5/13/2009	2.5 feet 5/13/2009	15 feet 5/13/2009	0-6 inch 5/14/2009	2.5 feet 5/14/2009
2-Butanone	--	--	--	0.03 J	0.0055 U	0.0052 U	0.0066 U	0.0059 U	0.0061 U	0.0051 U	0.0058 UJ	0.0066 U	0.0062 U	0.018	0.0057 U	0.0055 U	0.0069 U
Benzene	0.03	18	--	0.014 J	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.64 J	0.0013 U	0.0012 U	0.0082	0.0019	0.0011 U	0.0014 U
2-Hexanone	--	--	--	0.0073 UJ	0.0055 U	0.0052 U	0.0066 U	0.0059 U	0.0061 U	0.0051 U	0.0058 UJ	0.0066 U	0.0062 U	0.011	0.0057 U	0.0055 U	0.0069 U
Tetrachloroethene	0.05	1.9	--	0.0031 J	0.0011 U	0.0064	0.0013 U	0.0012 U	0.0012 U	0.001 U	0.025 J	0.0013 U	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0014 U
Toluene	7	6,400	--	0.0014 UJ	0.0011 U	0.001 U	0.0013 U	0.0012 U	0.0012 U	0.001 U	2.4 J	0.0013 U	0.0012 U	0.002	0.0011 U	0.0011 U	0.0014 U
Other Parameters																	
Total Solids (% DW)	--	--	--		89.7	94.3	92.1	87.5	80.8	93.1	89.3	90.9	88.5	NA	NA	NA	NA
Grain Size (%)																	
Gravel	--	--	--			1.4	73.3	0.1 U	4.4	0.6	33.2	51.8	0.2	0.7	NA	NA	NA
Sand	--	--	--			96.9	22.3	59.5	93.8	11.8	37.6	29.1	44.5	95.7	NA	NA	NA
Silt	--	--	--			1.7	2.4	36	1.4	75.6	15.2	11.8	49.2	2.3	NA	NA	NA
Clay	--	--	--			0.1 U	2	4.5	0.4	11.9	13.8	7.4	6.1	1.3	NA	NA	NA

Table includes all parameters detected in soil in at least one sample during this study. Detections are shown in **bold** text.

Yellow shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels or draft soil-to-sediment screening levels (SAIC 2006).

U = Parameter not detected at the stated reporting level
 J = Estimated concentration

^A SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated conditions.

**Table 7. Sampling Results: Groundwater
Basin Oil Property**
(All concentrations in ug/L)

Parameter	MTCA Groundwater Cleanup Levels		Draft GW-to-Sediment Screening Levels ^A	GW-052609-FD	GW-12-052609	GW-13-052609	TB-052609 ^B
	Method A	Method B		5/26/2009	5/26/2009	5/26/2009	5/26/2009
Total Metals							
Arsenic	5	0.058	370	18.6	17.8	10.7	ND
Selenium	--	--	--	0.5 U	0.5 U	2 U	ND
Dissolved Metals							
Arsenic	5	0.058	370	20.4	17.7	9.4	ND
Selenium	--	--	--	0.5 U	0.5 U	1.7	ND
VOCs							
Trichloroethene	5	0.49	--	0.2 U	0.2 U	0.2 U	4.3
Chloromethane	--	3.4	--	0.4	0.2 U	0.2 U	ND
Acetone	--	--	--	3.3	2.5	2.6	ND
Chloroform	--	7.2	--	1	1.1	2	ND
cis-1,2-Dichloroethene	--	0.081	--	--	--	--	11
Tetrachloroethene	--	5	--	--	--	--	46

Table includes all parameters detected in soil in at least one sample during this study. Detections are shown in bold text.

Yellow shaded cells are data that exceed MTCA Method A or Method B groundwater cleanup levels or draft groundwater-to-sediment screening levels (SAIC 2006).

ND = Not detected

U = Parameter not detected at the stated reporting level

^A SAIC 2006; draft groundwater-to-sediment screening levels based on SMS CSL values.

^B Trip blank sample was reanalyzed; listed VOCs were not detected (see Section 4.2.2)

Appendix G

Laboratory Analytical Reports for Performance and Confirmation Soil Samples

Table 7. T-117 First Quarter 2008 Soil Results

Location ID	Sample ID	Sample Date	Sample Type	Start Depth	End Depth	Depth Interval Unit	Elevation (mlw)	Analyte Unit							Total PCBs mg/kg	Diesel Range Hydrocarbons mg/kg	Motor Oil Range Hydrocarbons mg/kg	Total TPH mg/kg
								Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg	Aroclor-1242 mg/kg	Aroclor-1248 mg/kg				
MW-4R	MW-4R-0.5-2.0	2/28/2008		0.5	2	ft	19.19	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	29	300	329
MW-4R	MW-4R-2.5-4.0	2/28/2008		2.5	4	ft	19.19	< 0.57	< 0.57	< 0.57	< 0.57	3.80	< 0.57	< 0.57	3.8	370	2,500	2,870
MW-4R	MW-4R-5.0-6.5	2/28/2008		5	6.5	ft	19.19	< 0.032	< 0.032	< 0.032	< 0.032	0.044	< 0.032	< 0.032	0.044	< 110	520	520
MW-4R	MW-4R-7.5-9.0	2/28/2008		7.5	9	ft	19.19	< 0.032	< 0.032	< 0.032	< 0.032	0.053	< 0.032	< 0.032	0.053	< 110	580	580
MW-4R	MW-4R-10.0-11.5	2/28/2008		10	11.5	ft	19.19	< 0.032	< 0.032	< 0.032	< 0.032	0.048	< 0.032	< 0.032	0.048	< 110	790	790
MW-4R	MW-4R-12.5-14.0	2/28/2008		12.5	14	ft	19.19	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 120	510	510
MW-5	MW-5-0.5-2.0	2/27/2008		0.5	2	ft	17.68	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	7.1	70	71.7
MW-5	MW-5-2.5-4.0	2/27/2008		2.5	4	ft	17.68	< 0.17	< 0.17	< 0.17	< 0.17	0.59	< 0.17	< 0.17	0.59	< 52	390	390
MW-5	MW-5-5.0-6.5	2/27/2008		5	6.5	ft	17.68	< 0.33	< 0.33	< 0.33	< 0.33	2.40	< 0.33	< 0.33	2.4	9,000	36,000	45,000
MW-5	MW-5-7.5-9.0	2/27/2008		7.5	9	ft	17.68	< 0.27	< 0.27	< 0.27	< 0.27	1.50	< 0.27	< 0.27	1.5	430	4,000	4,430
MW-5	MW-5-10.0-11.5	2/27/2008		10	11.5	ft	17.68	< 0.56	< 0.56	< 0.56	< 0.56	4.20	< 0.56	< 0.56	4.2	230	990	1220
MW-5	MW-05-12.5-14.0	2/27/2008		12.5	14	ft	17.68	< 0.032	< 0.032	< 0.032	< 0.032	0.120	< 0.032	< 0.032	0.12	12	46	58
MW-8	MW-08-0.5-2.0	2/28/2008		0.05	2	ft	19.69	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 100	460	460
MW-8	MW-08-2.5-4.0	2/28/2008		2.5	4	ft	19.69	< 0.032	< 0.032	< 0.032	< 0.032	0.046	< 0.032	< 0.032	0.046	25	150	175
MW-8	MW-08-5.0-6.5	2/28/2008		5	6.5	ft	19.69	< 0.032	< 0.032	< 0.032	< 0.032	0.063	< 0.032	< 0.032	0.063	< 280	1,600	1,600
MW-8	DUP-01-022808	2/28/2008	FD	7.5	9	ft	19.69	< 0.032	< 0.032	< 0.032	< 0.032	0.052	< 0.032	< 0.032	0.052	< 110	390	390
MW-8	MW-08-7.5-9.0	2/28/2008		7.5	9	ft	19.69	< 0.032	< 0.032	< 0.032	< 0.032	0.053	< 0.032	< 0.032	0.053	< 110	530	530
MW-8	MW-08-10.0-11.5	2/28/2008		10	11.5	ft	19.69	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 110	470	470
MW-8	MW-08-12.5-14.0	2/28/2008		12.5	14	ft	19.69	< 0.032	< 0.032	< 0.032	< 0.032	0.16 J	< 0.032	< 0.032	0.16 J	< 120	340	340
MW-9	MW-09-0.5-2.0	2/27/2008		0.5	2	ft	23.85	< 0.55	< 0.55	< 0.55	< 0.55	1.40	< 0.55	< 0.55	1.4	18	180	198
MW-9	MW-09-2.5-4.0	2/27/2008		2.5	4	ft	23.85	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 5.8	24	24
MW-9	MW-09-5.0-6.5	2/27/2008		5	6.5	ft	23.85	< 0.033	< 0.033	< 0.033	< 0.033	0.055	< 0.033	< 0.033	0.055	< 6	16	16
MW-9	MW-09-7.5-9.0	2/27/2008		7.5	9	ft	23.85	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 5.6	< 11	< 11
MW-9	MW-09-10.0-11.5	2/27/2008		10	11.5	ft	23.85	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 6.2	14	14
MW-9	MW-09-12.5-14.0	2/27/2008		12.5	14	ft	23.85	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 5.3	< 11	< 11
MW-10	MW-10-0.5-2.0	2/28/2008		0.5	2	ft	23.17	< 0.1	< 0.1	< 0.1	< 0.1	0.40	< 0.1	< 0.1	0.4	73	520	593
MW-10	MW-10-2.5-4.0	2/28/2008		2.5	4	ft	23.17	< 0.29	< 0.29	< 0.29	< 0.29	1.50	< 0.29	< 0.29	1.5	< 58	380	380
MW-10	MW-10-5.0-6.5	2/28/2008		5	6.5	ft	23.17	< 0.16	< 0.16	< 0.16	< 0.16	0.54	< 0.16	< 0.16	0.54	< 5.7	13	13
MW-10	DUP-02-022808	2/28/2008	FD	7.5	9	ft	23.17	< 0.033	< 0.033	< 0.033	< 0.033	0.14	< 0.033	< 0.033	0.14	< 5.5	< 11	< 11
MW-10	MW-10-7.5-9.0	2/28/2008		7.5	9	ft	23.17	< 0.033	< 0.033	< 0.033	< 0.033	0.10	< 0.033	< 0.033	0.1	< 5.5	15	15
MW-10	MW-10-10.0-11.5	2/28/2008		10	11.5	ft	23.17	< 0.033	< 0.033	< 0.033	< 0.033	0.053	< 0.033	< 0.033	0.053	< 5.8	< 12	< 12
MW-10	MW-10-12.5-14.0	2/28/2008		12.5	14	ft	23.17	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 5.6	< 11	< 11

Bold - Detected with +) and low (indicated with -) bias based on lab QC results
 < - Non Detect at the Reporting limit shown.
 FD - Field Duplicate
 J - Estimated concentration with possible high (indicated with +) and low (indicated with -) bias based on lab QC results
 ft - feet

DRAFT

Date of Report: 08/25/22
Date Received: 08/22/22
Project: Basin Oil, F&BI 208325
Date Extracted: 08/24/22
Date Analyzed: 08/24/22

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
S-1 208325-01	<0.02	<0.02	<0.02	<0.06	<5	92
S-3 208325-02	<0.02	<0.02	<0.02	<0.06	<5	90
Method Blank 02-1744 MB	<0.02	<0.02	<0.02	<0.06	<5	94

Date of Report: 08/25/22
Date Received: 08/22/22
Project: Basin Oil, F&BI 208325
Date Extracted: 08/23/22
Date Analyzed: 08/23/22

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 48-168)
S-1 208325-01	<50	<250	97
S-3 208325-02	<50	<250	98
S-4 208325-03	<50	<250	96
S-5 208325-04	<50	<250	94
Method Blank 02-2023 MB	<50	<250	96

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-1	Client:	Urban Environmental Partners
Date Received:	08/22/22	Project:	Basin Oil, F&BI 208325
Date Extracted:	08/23/22	Lab ID:	208325-01
Date Analyzed:	08/23/22	Data File:	208325-01.064
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.60
Cadmium	<1
Chromium	15.1 J
Lead	32.8
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-3	Client:	Urban Environmental Partners
Date Received:	08/22/22	Project:	Basin Oil, F&BI 208325
Date Extracted:	08/23/22	Lab ID:	208325-02
Date Analyzed:	08/23/22	Data File:	208325-02.065
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	23.4
Cadmium	<1
Chromium	157 J
Lead	56.0
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 208325
Date Extracted:	08/23/22	Lab ID:	I2-569 mb2
Date Analyzed:	08/23/22	Data File:	I2-569 mb2.040
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-1
Date Received: 08/22/22
Date Extracted: 08/23/22
Date Analyzed: 08/23/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208325
Lab ID: 208325-01 1/6
Data File: 082308.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
91

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.070
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-3
Date Received: 08/22/22
Date Extracted: 08/23/22
Date Analyzed: 08/23/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208325
Lab ID: 208325-02 1/6
Data File: 082309.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
104

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	3.0 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-3	Client:	Urban Environmental Partners
Date Received:	08/22/22	Project:	Basin Oil, F&BI 208325
Date Extracted:	08/23/22	Lab ID:	208325-02 1/120
Date Analyzed:	08/24/22	Data File:	082432.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower	Upper
TCMX	100 d	Limit:	Limit:
		23	120

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	3.5

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-4
Date Received: 08/22/22
Date Extracted: 08/23/22
Date Analyzed: 08/23/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208325
Lab ID: 208325-03 1/6
Data File: 082310.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
106

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.41
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-5
Date Received: 08/22/22
Date Extracted: 08/23/22
Date Analyzed: 08/23/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208325
Lab ID: 208325-04 1/6
Data File: 082311.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
110

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.040
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 08/23/22
Date Analyzed: 08/23/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208325
Lab ID: 02-2020 mb2 1/6
Data File: 082304.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
110

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

DRAFT

Date of Report: 09/01/22
Date Received: 08/29/22
Project: Basin Oil, F&BI 208432
Date Extracted: 08/29/22
Date Analyzed: 08/29/22

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 56-165)
S3-Black 208432-01	<50	<250	116
Method Blank 02-2053 MB	<50	<250	117

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S3-Black
Date Received: 08/29/22
Date Extracted: 08/29/22
Date Analyzed: 08/29/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208432
Lab ID: 208432-01 1/6
Data File: 082916.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
86

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	6.4 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S3-Black
Date Received: 08/29/22
Date Extracted: 08/29/22
Date Analyzed: 08/30/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208432
Lab ID: 208432-01 1/120
Data File: 083007.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
90 d

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1260

7.4

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S3-2
Date Received: 08/29/22
Date Extracted: 08/29/22
Date Analyzed: 08/29/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208432
Lab ID: 208432-02 1/6
Data File: 082917.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
78

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	2.5 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S3-2	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208432
Date Extracted:	08/29/22	Lab ID:	208432-02 1/60
Date Analyzed:	08/30/22	Data File:	083006.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower	Upper
TCMX	75 d	Limit:	Limit:
		23	120

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	2.7

Analysis For PCBs By EPA Method 8082A

Client Sample ID: B3B-13'
Date Received: 08/29/22
Date Extracted: 08/29/22
Date Analyzed: 08/30/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208432
Lab ID: 208432-03 1/6
Data File: 083005.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
70 d

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.027
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 08/29/22
Date Analyzed: 08/29/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 208432
Lab ID: 02-2049 mb 1/6
Data File: 082905.D
Instrument: GC9
Operator: MG

Surrogates:
TCMX

% Recovery:
107

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

208432

SAMPLE CHAIN OF CUSTODY

08-29-22

001

Report To Johnf@uepconsulting.com;
matthewg@uepconsulting.com

Company Urban Environmental Partners llc

Address 2324 1st Ave. Suite 203

City, State, ZIP Seattle, WA 98121

Phone (425) 922-9922 Email _____

SAMPLERS (signature) John R. Funderburk

PROJECT NAME Basin Oil

PO #

REMARKS EXpedited

INVOICE TO UEP

Project Specific RIs - Yes / No

Page # 1 of 1
TURNAROUND TIME
Standard Turnaround
RUSH 1 day
Rush charges authorized by: Rgan
SAMPLE DISPOSAL
Dispose after 30 days
Archive amples
Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
<u>S3-B1ack</u>	<u>01</u>	<u>8-26-22</u>	<u>3:30</u>	<u>Soil</u>	<u>1</u>	<input checked="" type="checkbox"/>										
<u>S3-R</u>	<u>01</u>	<u>1</u>	<u>3:38</u>	<u>1</u>	<u>1</u>											
<u>638-131</u>	<u>03</u>	<u>1</u>	<u>3:41</u>	<u>1</u>	<u>1</u>											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Handwritten initials

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>John R Funderburk</u>	<u>John R Funderburk</u>	<u>UEP llc</u>	<u>8/29</u>	<u>8:00</u>
<u>Matthew</u>	<u>Matthew</u>	<u>UEP</u>	<u>8/29/22</u>	<u>800</u>
Received by:		<u>Samples received at</u>	<u>3</u>	<u>00</u>

DRAFT

Date of Report: 09/06/22
Date Received: 09/02/22
Project: Basin Oil, F&BI 209032
Date Extracted: 09/06/22
Date Analyzed: 09/06/22

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 56-165)
S-3-3(8") 209032-01	<50	<250	106
S-8-2(4") 209032-03	<50	<250	102
S-6-2(4") 209032-05	<50	<250	105
S-9-2(4") 209032-07	77 x	710	78
Method Blank 02-2116 MB	<50	<250	105

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: S-3-3(8")	Client: Urban Environmental Partners
Date Received: 09/02/22	Project: Basin Oil, F&BI 209032
Date Extracted: 09/02/22	Lab ID: 209032-01 1/5
Date Analyzed: 09/02/22	Data File: 090210.D
Matrix: Soil	Instrument: GCMS12
Units: mg/kg (ppm) Dry Weight	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	64	16	137
2-Fluorobiphenyl	67	46	122
2,4,6-Tribromophenol	70	17	154
Terphenyl-d14	79	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: S-6-2(4")	Client: Urban Environmental Partners
Date Received: 09/02/22	Project: Basin Oil, F&BI 209032
Date Extracted: 09/02/22	Lab ID: 209032-05 1/25
Date Analyzed: 09/02/22	Data File: 090211.D
Matrix: Soil	Instrument: GCMS12
Units: mg/kg (ppm) Dry Weight	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	64 d	16	137
2-Fluorobiphenyl	70 d	46	122
2,4,6-Tribromophenol	70 d	17	154
Terphenyl-d14	81 d	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	0.21
Anthracene	<0.05
Fluoranthene	0.41
Pyrene	0.38 j1
Benz(a)anthracene	0.17
Chrysene	0.18
Benzo(a)pyrene	0.20
Benzo(b)fluoranthene	0.24
Benzo(k)fluoranthene	0.076
Indeno(1,2,3-cd)pyrene	0.12
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	0.11

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: S-9-2(4")	Client: Urban Environmental Partners
Date Received: 09/02/22	Project: Basin Oil, F&BI 209032
Date Extracted: 09/02/22	Lab ID: 209032-07 1/25
Date Analyzed: 09/02/22	Data File: 090214.D
Matrix: Soil	Instrument: GCMS12
Units: mg/kg (ppm) Dry Weight	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	48 d	16	137
2-Fluorobiphenyl	64 d	46	122
2,4,6-Tribromophenol	66 d	17	154
Terphenyl-d14	72 d	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	0.067
Fluorene	0.053
Phenanthrene	0.98
Anthracene	0.18
Fluoranthene	1.1
Pyrene	1.3 jl
Benz(a)anthracene	0.51
Chrysene	0.54
Benzo(a)pyrene	0.62
Benzo(b)fluoranthene	0.70
Benzo(k)fluoranthene	0.24
Indeno(1,2,3-cd)pyrene	0.21
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	0.20

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank	Client: Urban Environmental Partners
Date Received: Not Applicable	Project: Basin Oil, F&BI 209032
Date Extracted: 09/02/22	Lab ID: 02-2107 mb2 1/5
Date Analyzed: 09/02/22	Data File: 090206.D
Matrix: Soil	Instrument: GCMS12
Units: mg/kg (ppm) Dry Weight	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	89	16	137
2-Fluorobiphenyl	96	46	122
2,4,6-Tribromophenol	84	17	154
Terphenyl-d14	98	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-3-3(8")
Date Received: 09/02/22
Date Extracted: 09/06/22
Date Analyzed: 09/06/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 209032
Lab ID: 209032-01 1/6
Data File: 090606.D
Instrument: GC9
Operator: VM

Surrogates:
TCMX

% Recovery:
90

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	16 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-6-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	209032-05 1/6
Date Analyzed:	09/06/22	Data File:	090607.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.23 c
Aroclor 1262	<0.02
Aroclor 1268	<0.02

c - The presence of the analyte indicated may be due to carryover from previous sample injections. The sample is being reanalyzed to confirm the result.

Analysis For PCBs By EPA Method 8082A

Client Sample ID: S-9-2(4")
Date Received: 09/02/22
Date Extracted: 09/06/22
Date Analyzed: 09/06/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 209032
Lab ID: 209032-07 1/6
Data File: 090608.D
Instrument: GC9
Operator: VM

Surrogates:
TCMX

% Recovery:
96

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.59
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 09/06/22
Date Analyzed: 09/06/22
Matrix: Soil
Units: mg/kg (ppm) Dry Weight

Client: Urban Environmental Partners
Project: Basin Oil, F&BI 209032
Lab ID: 02-2115 mb 1/6
Data File: 090604.D
Instrument: GC9
Operator: VM

Surrogates:
TCMX

% Recovery:
101

Lower
Limit:
23

Upper
Limit:
120

Compounds:

Concentration
mg/kg (ppm)

Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

209032

SAMPLE CHAIN OF CUSTODY

912h2

Page # 1 of 1

Report To johnf@uepconsulting.com; matthewg@uepconsulting.com

Company Urban Environmental Partners llc

Address 2324 1st Ave. Suite 203

City, State, ZIP Seattle, WA 98121

Phone (425) 922-9922 Email

SAMPLERS (Signature) John R Funderback

PROJECT NAME Basin Oil

TURNAROUND TIME Standard Turnaround X RUSH 12 HR TAT Rush charges authorized by 916

REMARKS PO # INVOICE TO UEP

SAMPLE DISPOSAL Dispose after 30 days Archive samples Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
5-3-3 (8")	01	9/2/22	5	9:45	X	X		X	X			Move analysed after these
5-3-4 (16")	02			9:46	X	X						core analysed.
5-8-2 (4")	03				X	X						
5-8-3 (8")	04											
5-6-2 (4")	05			8:20	X	X		X	X			
5-6-2 (8")	06			8:24	X	X		X	X			
5-9-2 (4")	07			8:32	X	X		X	X			
5-9-3 (8")	08			8:34	X	X		X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: John P Funderback	John P Funderback	UEP llc	9/2	12:22
Received by: John R Funderback	John R Funderback	FBI	9/2/22	10:22
Relinquished by:		Samples received at	17	00
Received by:				

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 16, 2022

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the additional results from the testing of material submitted on August 29, 2022 from the Basin Oil, F&BI 208441 project. There are 7 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Urban Env Partners Data (UEP), Roy Kuroiwa
UEP0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 29, 2022 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 208441 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
208441 -01	S-9
208441 -02	S-8
208441 -03	S-7
208441 -04	S-6
208441 -05	S-2

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22
Date Received: 08/29/22
Project: Basin Oil, F&BI 208441
Date Extracted: 09/12/22
Date Analyzed: 09/12/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
S-7 208441-03	<0.02	<0.02	<0.02	<0.06	<5	99
Method Blank 02-2076 MB	<0.02	<0.02	<0.02	<0.06	<5	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-7	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	09/12/22	Lab ID:	208441-03
Date Analyzed:	09/13/22	Data File:	208441-03.178
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.30
Cadmium	<1
Chromium	10.9
Lead	8.77
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 208441
Date Extracted:	09/12/22	Lab ID:	I2-629 mb
Date Analyzed:	09/12/22	Data File:	I2-629 mb.048
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<5
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

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

Laboratory Code: 209071-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	0.039	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	92	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

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

Laboratory Code: 209097-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	3.13	93	93	75-125	0
Cadmium	mg/kg (ppm)	10	<1	103	105	75-125	2
Chromium	mg/kg (ppm)	50	15.8	104	112	75-125	7
Lead	mg/kg (ppm)	50	2.48	102	104	75-125	2
Mercury	mg/kg (ppm)	5	<1	106	109	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	100	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Chromium	mg/kg (ppm)	50	107	80-120
Lead	mg/kg (ppm)	50	106	80-120
Mercury	mg/kg (ppm)	5	110	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLE CHAIN OF CUSTODY

Report No. 208441
 Company Sony Funderback
 Address 2324 1st Ave
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLERS (signature) [Signature]
 PROJECT NAME B & S in Oil
 PO # _____

REMARKS _____
 INVOICE TO _____
 Project specific RIs? - Yes / No

TURNAROUND TIME
 Standard turnaround
 RUSH 3-Day per BK 8/24/12
 Rush charges authorized by: ME
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270		PCBs EPA 8082	MTCM meta
S-9	Q1	8-29-12	10:40	Soil	1	X				X	X	X		● STD TAT
S-8	Q2A-E		10:50		5	X		X		X	X	X		PER RK 9/1/12 ME
S-7	Q3		11:00		1	X		●		X	X	X		
S-6	Q4A-E		11:20		5	X		X		X	X	X		
S-2	Q5		11:50		1	X				X	X	X		
Samples retrieved at <u>3</u> °C														

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

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		<u>Sohn R. Funderback</u>		<u>WEP 11c</u>		<u>8-29-12</u>	<u>10:05</u>
Received by: <u>[Signature]</u>		<u>Wahon Kurawia</u>		<u>WEP</u>		<u>8-29-12</u>	<u>11:45</u>
Relinquished by: <u>[Signature]</u>		<u>Wahon Kurawia</u>		<u>WEP</u>		<u>8-29-12</u>	<u>12:10</u>
Received by: <u>[Signature]</u>		<u>W. Madden</u>		<u>F+BT</u>		<u>8/29/12</u>	<u>12:10</u>

8/29/12 - RF ^{inv} of US A1/CO1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 6, 2022

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on August 29, 2022 from the Basin Oil, F&BI 208441 project. There are 22 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Urban Env Partners Data (UEP)
UEP0906R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 29, 2022 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 208441 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
208441 -01	S-9
208441 -02	S-8
208441 -03	S-7
208441 -04	S-6
208441 -05	S-2

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22
Date Received: 08/29/22
Project: Basin Oil, F&BI 208441
Date Extracted: 08/30/22
Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
USING METHOD 8021B**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
S-8 208441-02	<0.02	<0.02	<0.02	<0.06	101
S-6 208441-04	<0.02	<0.02	<0.02	<0.06	98
Method Blank 02-1753 MB	<0.02	<0.02	<0.02	<0.06	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22
Date Received: 08/29/22
Project: Basin Oil, F&BI 208441
Date Extracted: 08/30/22
Date Analyzed: 08/30/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
S-9 208441-01	<50	380	94
S-8 208441-02	160 x	1,600	93
S-7 208441-03	<50	<250	99
S-6 208441-04	<50	<250	103
S-2 208441-05	<50	<250	97
Method Blank 02-2057 MB	<50	<250	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-9	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-01 1/25
Date Analyzed:	08/30/22	Data File:	083020.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	65 d	10	198
2-Fluorobiphenyl	74 d	45	117
2,4,6-Tribromophenol	87 d	11	158
Terphenyl-d14	95 d	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	0.12
Fluorene	0.098
Phenanthrene	1.8
Anthracene	0.31
Fluoranthene	1.8
Pyrene	2.2
Benz(a)anthracene	0.82
Chrysene	0.83
Benzo(a)pyrene	0.94
Benzo(b)fluoranthene	0.96
Benzo(k)fluoranthene	0.30
Indeno(1,2,3-cd)pyrene	0.48
Dibenz(a,h)anthracene	0.090
Benzo(g,h,i)perylene	0.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-8	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-02 1/100
Date Analyzed:	08/31/22	Data File:	083023.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	80 d	10	198
2-Fluorobiphenyl	94 d	45	117
2,4,6-Tribromophenol	76 d	11	158
Terphenyl-d14	102 d	50	124

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-7	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-03 1/25
Date Analyzed:	08/30/22	Data File:	083012.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	72 d	10	198
2-Fluorobiphenyl	86 d	45	117
2,4,6-Tribromophenol	83 d	11	158
Terphenyl-d14	100 d	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	<0.05
Anthracene	<0.05
Fluoranthene	<0.05
Pyrene	<0.05
Benz(a)anthracene	<0.05
Chrysene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Indeno(1,2,3-cd)pyrene	<0.05
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-6	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-04 1/5
Date Analyzed:	08/30/22	Data File:	083013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	64	10	198
2-Fluorobiphenyl	75	45	117
2,4,6-Tribromophenol	86	11	158
Terphenyl-d14	84	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.083
Anthracene	0.013
Fluoranthene	0.15
Pyrene	0.14
Benz(a)anthracene	0.067
Chrysene	0.071
Benzo(a)pyrene	0.089
Benzo(b)fluoranthene	0.092
Benzo(k)fluoranthene	0.035
Indeno(1,2,3-cd)pyrene	0.058
Dibenz(a,h)anthracene	0.011
Benzo(g,h,i)perylene	0.054

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-2	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-05 1/5
Date Analyzed:	08/30/22	Data File:	083011.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	86	10	198
2-Fluorobiphenyl	94	45	117
2,4,6-Tribromophenol	104	11	158
Terphenyl-d14	110	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	02-2048 mb2 1/5
Date Analyzed:	08/30/22	Data File:	083007.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	91	10	198
2-Fluorobiphenyl	103	45	117
2,4,6-Tribromophenol	100	11	158
Terphenyl-d14	114	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-9	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-01 1/6
Date Analyzed:	08/30/22	Data File:	083012.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.32
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-8	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-02 1/6
Date Analyzed:	08/30/22	Data File:	083013.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.1 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-8	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-02 1/60
Date Analyzed:	09/01/22	Data File:	090112.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90 d	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.2
Aroclor 1232	<0.2
Aroclor 1016	<0.2
Aroclor 1242	<0.2
Aroclor 1248	<0.2
Aroclor 1254	<0.2
Aroclor 1260	1.6
Aroclor 1262	<0.2
Aroclor 1268	<0.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-7	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-03 1/6
Date Analyzed:	08/30/22	Data File:	083014.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	70	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.17
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-6	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-04 1/6
Date Analyzed:	08/30/22	Data File:	083015.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.17
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-2	Client:	Urban Environmental Partners
Date Received:	08/29/22	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	208441-05 1/6
Date Analyzed:	08/30/22	Data File:	083016.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.021
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 208441
Date Extracted:	08/30/22	Lab ID:	02-2049 mb2 1/6
Date Analyzed:	08/30/22	Data File:	083011.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
AND XYLENES
USING EPA METHOD 8021B**

Laboratory Code: 208425-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	90	69-120
Toluene	mg/kg (ppm)	0.5	91	70-117
Ethylbenzene	mg/kg (ppm)	0.5	90	65-123
Xylenes	mg/kg (ppm)	1.5	91	66-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

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

Laboratory Code: 208445-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	114	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	122	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

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

Laboratory Code: 208363-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	85	82	28-125	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	86	84	10-192	2
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	87	85	10-163	2
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	92	87	45-128	6
Acenaphthene	mg/kg (ppm)	0.83	<0.01	91	85	36-125	7
Fluorene	mg/kg (ppm)	0.83	<0.01	90	86	48-121	5
Phenanthrene	mg/kg (ppm)	0.83	0.013	93	91	50-150	2
Anthracene	mg/kg (ppm)	0.83	<0.01	93	93	50-150	0
Fluoranthene	mg/kg (ppm)	0.83	0.055	95	98	50-150	3
Pyrene	mg/kg (ppm)	0.83	0.092	98	100	40-134	2
Benzo(a)anthracene	mg/kg (ppm)	0.83	0.032	99	100	50-150	1
Chrysene	mg/kg (ppm)	0.83	0.049	92	92	50-150	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	0.075	104	102	50-150	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	0.081	108	108	50-150	0
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	0.022	106	101	50-150	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	0.070	98	96	41-134	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	97	92	44-130	5
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	0.085	90	88	33-131	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

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

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	83	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	86	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	86	66-107
Acenaphthylene	mg/kg (ppm)	0.83	90	70-130
Acenaphthene	mg/kg (ppm)	0.83	88	66-112
Fluorene	mg/kg (ppm)	0.83	89	67-117
Phenanthrene	mg/kg (ppm)	0.83	89	70-130
Anthracene	mg/kg (ppm)	0.83	91	70-130
Fluoranthene	mg/kg (ppm)	0.83	94	70-130
Pyrene	mg/kg (ppm)	0.83	92	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	96	70-130
Chrysene	mg/kg (ppm)	0.83	94	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	96	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	97	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	97	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	92	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	94	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	86	64-127

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/06/22

Date Received: 08/29/22

Project: Basin Oil, F&BI 208441

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 208419-10 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	84	77	44-107	9
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	76	70	38-124	8

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	98	47-158
Aroclor 1260	mg/kg (ppm)	0.25	96	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLE CHAIN OF CUSTODY

8/29/22 ¹⁴⁴ BIZ 115A/CO1
 Page # 1 of 1

Report No: 208441
 Company: Sohy Funderburk
 Address: 1324 1st Ave
 City, State, ZIP: _____
 Phone: _____
 Email: _____

SAMPLERS (signature) [Signature]
 PROJECT NAME: Bd's in O.I.
 PO #: _____
 REMARKS: _____
 INVOICE TO: _____
 Project specific RIs? - Yes / No

TURNAROUND TIME
 Standard turnaround
 RUSH 3-Days per BK 8/24/22
 Rush charges authorized by: ME
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		MTCA Metals
S-9	01	8-29-22	10:40	Soil	1	X	X	X	X	X	X	X		
S-8	02A-E		10:50		5	X	X	X	X	X	X	X		
S-7	03		11:00		1	X	X	X	X	X	X	X		
S-6	04A-E		11:20		5	X	X	X	X	X	X	X		
S-2	05		11:50		1	X	X	X	X	X	X	X		
Samples received at <u>3</u> of <u>06</u>														

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Sohn R. Funderburk	WED 11c	8-29-22	10:45
<u>[Signature]</u>	William Kurawica	VEP	8-29-22	11:45
<u>[Signature]</u>	William Kurawica	VEP	8-29-22	12:10
<u>[Signature]</u>	W. Medden	F+BT	8/29/22	12:00

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 16, 2022

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on September 2, 2022 from the Basin Oil, F&BI 209032 project. There are 35 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Urban Env Partners Data (UEP), Roy Kuriowa
UEP0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

January 28, 2021

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on January 22, 2021 from the Basin Oil, F&BI 101321 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Matthew Grunwald
UEP0128R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 22, 2021 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 101321 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
101321 -01	MW-B01-11
101321 -02	MW-B01-13
101321 -03	MW-B01-16.5
101321 -04	MW-B01-21.5
101321 -05	MW-B02-10
101321 -06	MW-B02-15
101321 -07	MW-B02-28
101321 -08	MW-B02-35

A 6020B internal standard failed the acceptance criteria for sample MW-B02-10. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21
Date Received: 01/22/21
Project: Basin Oil, F&BI 101321
Date Extracted: 01/25/21
Date Analyzed: 01/26/21

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MW-B01-11 101321-01	<0.02	<0.02	<0.02	<0.06	<5	114
MW-B01-13 101321-02	<0.02	<0.02	<0.02	<0.06	<5	113
MW-B02-10 101321-05	<0.02	<0.02	<0.02	<0.06	<5	101
Method Blank 01-125 MB	<0.02	<0.02	<0.02	<0.06	<5	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21
Date Received: 01/22/21
Project: Basin Oil, F&BI 101321
Date Extracted: 01/25/21
Date Analyzed: 01/25/21

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MW-B01-11 101321-01	<50	<250	98
MW-B01-13 101321-02	<50	<250	95
MW-B02-10 101321-05	<50	<250	89
Method Blank 01-196 MB	<50	<250	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B01-11	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-01
Date Analyzed:	01/25/21	Data File:	101321-01.127
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.13
Barium	13.1
Cadmium	<1
Chromium	9.65
Lead	1.06
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B01-13	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-02
Date Analyzed:	01/25/21	Data File:	101321-02.143
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.35
Barium	26.3
Cadmium	<1
Chromium	8.61
Lead	1.55
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B02-10	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-05
Date Analyzed:	01/25/21	Data File:	101321-05.144
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.88
Barium	48.8
Cadmium	<1
Chromium	19.0 J
Lead	1.77
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B02-10	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-05 x5
Date Analyzed:	01/26/21	Data File:	101321-05 x5.055
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	22.9
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	I1-46 mb
Date Analyzed:	01/25/21	Data File:	I1-46 mb.125
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B01-11	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-01 1/6
Date Analyzed:	01/25/21	Data File:	012511.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B01-13	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-02 1/6
Date Analyzed:	01/25/21	Data File:	012512.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B02-10	Client:	Urban Environmental Partners
Date Received:	01/22/21	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	101321-05 1/6
Date Analyzed:	01/25/21	Data File:	012513.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 101321
Date Extracted:	01/25/21	Lab ID:	01-197 mb 1/6
Date Analyzed:	01/25/21	Data File:	012510.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21

Date Received: 01/22/21

Project: Basin Oil, F&BI 101321

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

Laboratory Code: 101279-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	89	69-120
Toluene	mg/kg (ppm)	0.5	94	70-117
Ethylbenzene	mg/kg (ppm)	0.5	95	65-123
Xylenes	mg/kg (ppm)	1.5	96	66-120
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21

Date Received: 01/22/21

Project: Basin Oil, F&BI 101321

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

Laboratory Code: 101329-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	96	64-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21

Date Received: 01/22/21

Project: Basin Oil, F&BI 101321

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

Laboratory Code: 101321-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	1.04	83	85	75-125	2
Barium	mg/kg (ppm)	50	12.1	102	105	75-125	3
Cadmium	mg/kg (ppm)	10	<1	97	104	75-125	7
Chromium	mg/kg (ppm)	50	8.88	92	98	75-125	6
Lead	mg/kg (ppm)	50	<1	88	91	75-125	3
Mercury	mg/kg (ppm)	5	<1	90	91	75-125	1
Selenium	mg/kg (ppm)	5	<1	88	90	75-125	2
Silver	mg/kg (ppm)	10	<1	83	90	75-125	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Barium	mg/kg (ppm)	50	93	80-120
Cadmium	mg/kg (ppm)	10	99	80-120
Chromium	mg/kg (ppm)	50	111	80-120
Lead	mg/kg (ppm)	50	97	80-120
Mercury	mg/kg (ppm)	5	98	80-120
Selenium	mg/kg (ppm)	5	91	80-120
Silver	mg/kg (ppm)	10	87	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21

Date Received: 01/22/21

Project: Basin Oil, F&BI 101321

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 101321-01 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	90	90	29-125	0
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	95	97	25-137	2

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	99	55-137
Aroclor 1260	mg/kg (ppm)	0.25	106	51-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLE CHAIN OF CUSTODY

101321

Me 01-22-21

Page # 1 of 1 BR2

Report to: John Funderbark (cc: Matthew)

Company: Urban Env. Partners

Address: 2324 1st Ave. Suite 203

City, State, ZIP: Seattle, WA 98121

Phone: 206-425-9922 Email: john.funderbark@urbanenv.com

Matthew@urbanenv.com

SAMPLERS (signature)	PROJECT NAME
<u>[Signature]</u>	<u>Basin 01</u>
REMARKS	PO #
<u>VEP</u>	
INVOICE TO	
<u>VEP</u>	

TURNAROUND TIME VS3

Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	RCRA 8 Metals		
MU-B01-11	01A-E	1/22/21	1230	S		X	X	X				X	X		
MU-B01-13	02		1240			X	X	X				X	X		HOLD
MU-B01-16.5	03		1250												HOLD
MU-B01-21.5	04		1300												HOLD
MU-B02-10	05		0900			X	X	X				X	X		HOLD
MU-B02-15	06		0930												HOLD
MU-B02-28	07		1000												HOLD
MU-B02-35	08		1030												HOLD

Samples received at 4 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Brian Dixon</u>	<u>Dixon ES</u>	<u>1/22/21</u>	<u>1417</u>
Relinquished by:				
Received by:	<u>[Signature]</u>	<u>VEP</u>	<u>1/22/21</u>	<u>1417</u>
Relinquished by:				
Received by:				

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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fbi@isomedia.com
www.friedmanandbruya.com

February 11, 2021

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on February 3, 2021 from the Basin Oil, F&BI 102059 project. There are 25 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: rkkp@comcast.net
UEP0211R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 3, 2020 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 102059 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
102059 -01	MWB01
102059 -02	MWB02

The 8260D calibration standard failed the acceptance criteria for hexachlorobutadiene in the 8260D method blank. The data were flagged accordingly.

Benzoic acid in the 8270E laboratory control sample and laboratory control sample duplicate failed the acceptance criteria. The data were flagged accordingly.

The 8270E laboratory control sample and laboratory control sample duplicate failed the relative percent difference for several compounds. The analytes were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21
Date Received: 02/03/21
Project: Basin Oil, F&BI 102059
Date Extracted: 02/04/21
Date Analyzed: 02/04/21

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

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
MWB01 102059-01	<50	<250	87
MWB02 102059-02	<50	<250	83
Method Blank 01-285 MB2	<50	<250	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	102059-01
Date Analyzed:	02/08/21	Data File:	102059-01.189
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	5.60
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	102059-02
Date Analyzed:	02/08/21	Data File:	102059-02.192
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	17.0
Barium	24.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	I1-100 mb
Date Analyzed:	02/08/21	Data File:	I1-100 mb.126
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	102059-01
Date Analyzed:	02/08/21	Data File:	102059-01.150
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	5.98
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	102059-02
Date Analyzed:	02/08/21	Data File:	102059-02.193
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	18.5
Barium	24.7
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/08/21	Lab ID:	I1-99 mb
Date Analyzed:	02/08/21	Data File:	I1-99 mb.134
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/05/21	Lab ID:	102059-01
Date Analyzed:	02/05/21	Data File:	020540.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	99	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/05/21	Lab ID:	102059-02
Date Analyzed:	02/05/21	Data File:	020541.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	96	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/05/21	Lab ID:	01-229 mb
Date Analyzed:	02/05/21	Data File:	020508.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	86	113
Toluene-d8	107	88	114
4-Bromofluorobenzene	97	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	102059-01
Date Analyzed:	02/05/21	Data File:	020507.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	20	15	61
Phenol-d6	12	10	46
Nitrobenzene-d5	76	17	143
2-Fluorobiphenyl	77	50	150
2,4,6-Tribromophenol	75	50	150
Terphenyl-d14	83	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 j1	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	102059-02
Date Analyzed:	02/05/21	Data File:	020508.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	15	15	61
Phenol-d6	10	10	46
Nitrobenzene-d5	62	17	143
2-Fluorobiphenyl	68	50	150
2,4,6-Tribromophenol	67	50	150
Terphenyl-d14	69	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 j1	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	01-290 mb
Date Analyzed:	02/05/21	Data File:	020506.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	24	15	61
Phenol-d6	14	10	46
Nitrobenzene-d5	79	17	143
2-Fluorobiphenyl	76	50	150
2,4,6-Tribromophenol	71	50	150
Terphenyl-d14	86	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 j1	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	102059-01
Date Analyzed:	02/05/21	Data File:	020512.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	41	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	02/03/21	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	102059-02
Date Analyzed:	02/05/21	Data File:	020513.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	49	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 102059
Date Extracted:	02/04/21	Lab ID:	01-283 mb2
Date Analyzed:	02/04/21	Data File:	020407.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	46	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	96	61-133	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: 102072-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	100	99	75-125	1
Barium	ug/L (ppb)	50	18.3	103	103	75-125	0
Cadmium	ug/L (ppb)	5	<1	97	97	75-125	0
Chromium	ug/L (ppb)	20	<1	101	98	75-125	3
Lead	ug/L (ppb)	10	<1	87	86	75-125	1
Mercury	ug/L (ppb)	5	<1	88	88	75-125	0
Selenium	ug/L (ppb)	5	<1	107	109	75-125	2
Silver	ug/L (ppb)	5	<1	99	96	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	99	80-120
Barium	ug/L (ppb)	50	96	80-120
Cadmium	ug/L (ppb)	5	98	80-120
Chromium	ug/L (ppb)	20	97	80-120
Lead	ug/L (ppb)	10	99	80-120
Mercury	ug/L (ppb)	5	98	80-120
Selenium	ug/L (ppb)	5	103	80-120
Silver	ug/L (ppb)	5	106	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: 102059-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	102	101	75-125	1
Barium	ug/L (ppb)	50	5.98	100	101	75-125	1
Cadmium	ug/L (ppb)	5	<1	97	97	75-125	0
Chromium	ug/L (ppb)	20	<1	97	99	75-125	2
Lead	ug/L (ppb)	10	<1	90	90	75-125	0
Mercury	ug/L (ppb)	5	<1	82	93	75-125	13
Selenium	ug/L (ppb)	5	<1	107	106	75-125	1
Silver	ug/L (ppb)	5	<1	98	97	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	99	80-120
Barium	ug/L (ppb)	50	93	80-120
Cadmium	ug/L (ppb)	5	96	80-120
Chromium	ug/L (ppb)	20	98	80-120
Lead	ug/L (ppb)	10	100	80-120
Mercury	ug/L (ppb)	5	97	80-120
Selenium	ug/L (ppb)	5	105	80-120
Silver	ug/L (ppb)	5	104	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: 102089-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	99	10-172
Chloromethane	ug/L (ppb)	10	<10	78	25-166
Vinyl chloride	ug/L (ppb)	10	<0.2	86	36-166
Bromomethane	ug/L (ppb)	10	<5	121	47-169
Chloroethane	ug/L (ppb)	10	<1	89	46-160
Trichlorofluoromethane	ug/L (ppb)	10	<1	72	44-165
Acetone	ug/L (ppb)	50	<50	78	10-182
1,1-Dichloroethene	ug/L (ppb)	10	<1	94	58-142
Hexane	ug/L (ppb)	10	<5	80	38-152
Methylene chloride	ug/L (ppb)	10	<5	110	50-145
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	93	61-136
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	90	61-136
1,1-Dichloroethane	ug/L (ppb)	10	<1	86	63-135
2,2-Dichloropropane	ug/L (ppb)	10	<1	73	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	92	63-134
Chloroform	ug/L (ppb)	10	<1	93	61-135
2-Butanone (MEK)	ug/L (ppb)	50	<20	96	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<1	94	48-149
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	91	60-146
1,1-Dichloropropene	ug/L (ppb)	10	<1	91	69-133
Carbon tetrachloride	ug/L (ppb)	10	<1	95	56-152
Benzene	ug/L (ppb)	10	<0.35	91	57-135
Trichloroethene	ug/L (ppb)	10	<1	90	66-135
1,2-Dichloropropane	ug/L (ppb)	10	<1	91	59-136
Bromodichloromethane	ug/L (ppb)	10	<1	86	61-150
Dibromomethane	ug/L (ppb)	10	<1	96	66-141
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	102	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	10	<1	86	52-147
Toluene	ug/L (ppb)	10	<1	97	50-137
trans-1,3-Dichloropropene	ug/L (ppb)	10	<1	88	53-142
1,1,2-Trichloroethane	ug/L (ppb)	10	<1	101	68-131
2-Hexanone	ug/L (ppb)	50	<10	115	10-185
1,3-Dichloropropane	ug/L (ppb)	10	<1	99	60-135
Tetrachloroethene	ug/L (ppb)	10	<1	101	10-226
Dibromochloromethane	ug/L (ppb)	10	<1	92	52-145
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	102	62-135
Chlorobenzene	ug/L (ppb)	10	<1	102	63-130
Ethylbenzene	ug/L (ppb)	10	<1	99	60-133
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	100	56-143
m,p-Xylene	ug/L (ppb)	20	<2	101	69-135
o-Xylene	ug/L (ppb)	10	<1	99	60-140
Styrene	ug/L (ppb)	10	<1	98	60-133
Isopropylbenzene	ug/L (ppb)	10	<1	96	65-142
Bromoform	ug/L (ppb)	10	<5	83	54-148
n-Propylbenzene	ug/L (ppb)	10	<1	99	58-144
Bromobenzene	ug/L (ppb)	10	<1	109	61-130
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	97	59-134
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<1	106	51-154
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	104	53-150
2-Chlorotoluene	ug/L (ppb)	10	<1	99	66-127
4-Chlorotoluene	ug/L (ppb)	10	<1	100	65-130
tert-Butylbenzene	ug/L (ppb)	10	<1	98	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	96	59-146
sec-Butylbenzene	ug/L (ppb)	10	<1	98	64-140
p-Isopropyltoluene	ug/L (ppb)	10	<1	98	65-141
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	104	60-131
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	107	60-129
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	105	60-130
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	97	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	97	52-138
Hexachlorobutadiene	ug/L (ppb)	10	<1	86	60-143
Naphthalene	ug/L (ppb)	10	<1	99	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	98	69-148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	105	104	25-158	1
Chloromethane	ug/L (ppb)	10	93	93	45-156	0
Vinyl chloride	ug/L (ppb)	10	98	104	50-154	6
Bromomethane	ug/L (ppb)	10	141	139	55-143	1
Chloroethane	ug/L (ppb)	10	102	104	58-146	2
Trichlorofluoromethane	ug/L (ppb)	10	102	101	50-150	1
Acetone	ug/L (ppb)	50	93	98	22-155	5
1,1-Dichloroethene	ug/L (ppb)	10	112	112	67-136	0
Hexane	ug/L (ppb)	10	98	96	57-137	2
Methylene chloride	ug/L (ppb)	10	112	108	19-178	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	107	108	64-147	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	105	107	68-128	2
1,1-Dichloroethane	ug/L (ppb)	10	104	103	74-135	1
2,2-Dichloropropane	ug/L (ppb)	10	100	97	55-143	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	104	106	74-136	2
Chloroform	ug/L (ppb)	10	107	106	74-134	1
2-Butanone (MEK)	ug/L (ppb)	50	110	112	37-150	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	107	109	66-129	2
1,1,1-Trichloroethane	ug/L (ppb)	10	107	108	74-142	1
1,1-Dichloropropene	ug/L (ppb)	10	107	107	77-129	0
Carbon tetrachloride	ug/L (ppb)	10	114	116	75-158	2
Benzene	ug/L (ppb)	10	107	106	69-134	1
Trichloroethene	ug/L (ppb)	10	105	105	67-133	0
1,2-Dichloropropane	ug/L (ppb)	10	106	106	71-134	0
Bromodichloromethane	ug/L (ppb)	10	103	100	66-126	3
Dibromomethane	ug/L (ppb)	10	111	112	68-132	1
4-Methyl-2-pentanone	ug/L (ppb)	50	115	115	65-138	0
cis-1,3-Dichloropropene	ug/L (ppb)	10	105	104	74-140	1
Toluene	ug/L (ppb)	10	95	92	72-122	3
trans-1,3-Dichloropropene	ug/L (ppb)	10	89	85	80-136	5
1,1,2-Trichloroethane	ug/L (ppb)	10	94	93	75-124	1
2-Hexanone	ug/L (ppb)	50	106	105	60-136	1
1,3-Dichloropropane	ug/L (ppb)	10	94	92	76-126	2
Tetrachloroethene	ug/L (ppb)	10	97	95	76-121	2
Dibromochloromethane	ug/L (ppb)	10	93	89	84-133	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	98	96	82-115	2
Chlorobenzene	ug/L (ppb)	10	98	96	83-114	2
Ethylbenzene	ug/L (ppb)	10	94	93	77-124	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	94	94	84-127	0
m,p-Xylene	ug/L (ppb)	20	97	95	81-112	2
o-Xylene	ug/L (ppb)	10	95	93	81-121	2
Styrene	ug/L (ppb)	10	95	92	84-119	3
Isopropylbenzene	ug/L (ppb)	10	92	90	80-117	2
Bromoform	ug/L (ppb)	10	92	87	69-121	6
n-Propylbenzene	ug/L (ppb)	10	90	89	74-126	1
Bromobenzene	ug/L (ppb)	10	95	93	80-121	2
1,3,5-Trimethylbenzene	ug/L (ppb)	10	89	87	78-123	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	92	90	66-126	2
1,2,3-Trichloropropane	ug/L (ppb)	10	92	92	67-124	0
2-Chlorotoluene	ug/L (ppb)	10	90	88	77-127	2
4-Chlorotoluene	ug/L (ppb)	10	91	88	78-128	3
tert-Butylbenzene	ug/L (ppb)	10	89	88	80-123	1
1,2,4-Trimethylbenzene	ug/L (ppb)	10	88	86	79-122	2
sec-Butylbenzene	ug/L (ppb)	10	89	88	80-116	1
p-Isopropyltoluene	ug/L (ppb)	10	87	87	81-123	0
1,3-Dichlorobenzene	ug/L (ppb)	10	94	92	83-113	2
1,4-Dichlorobenzene	ug/L (ppb)	10	93	92	81-112	1
1,2-Dichlorobenzene	ug/L (ppb)	10	93	90	84-112	3
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	83	86	57-141	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	87	84	72-130	4
Hexachlorobutadiene	ug/L (ppb)	10	82	79	53-141	4
Naphthalene	ug/L (ppb)	10	87	87	64-133	0
1,2,3-Trichlorobenzene	ug/L (ppb)	10	87	86	65-136	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	5	14	14	10-27	0
Bis(2-chloroethyl) ether	ug/L (ppb)	5	75	78	45-115	4
2-Chlorophenol	ug/L (ppb)	5	62	57	47-84	8
1,3-Dichlorobenzene	ug/L (ppb)	5	63	66	59-91	5
1,4-Dichlorobenzene	ug/L (ppb)	5	63	65	59-93	3
1,2-Dichlorobenzene	ug/L (ppb)	5	65	68	61-92	5
Benzyl alcohol	ug/L (ppb)	15	41	44	14-82	7
2,2'-Oxybis(1-chloropropane)	ug/L (ppb)	5	73	74	70-130	1
2-Methylphenol	ug/L (ppb)	5	46	47	33-64	2
Hexachloroethane	ug/L (ppb)	5	68	68	57-94	0
N-Nitroso-di-n-propylamine	ug/L (ppb)	5	80	81	70-130	1
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	5	39	39	26-54	0
Nitrobenzene	ug/L (ppb)	5	76	80	68-100	5
Isophorone	ug/L (ppb)	5	81	82	67-114	1
2-Nitrophenol	ug/L (ppb)	5	77	71	61-111	8
2,4-Dimethylphenol	ug/L (ppb)	5	62	63	23-105	2
Benzoic acid	ug/L (ppb)	40	9 vo	7 vo	10-21	25 vo
Bis(2-chloroethoxy)methane	ug/L (ppb)	5	79	79	70-130	0
2,4-Dichlorophenol	ug/L (ppb)	5	74	69	64-101	7
1,2,4-Trichlorobenzene	ug/L (ppb)	5	70	72	70-130	3
Naphthalene	ug/L (ppb)	5	72	74	70-130	3
Hexachlorobutadiene	ug/L (ppb)	5	70	72	57-93	3
4-Chloroaniline	ug/L (ppb)	15	72	79	40-141	9
4-Chloro-3-methylphenol	ug/L (ppb)	5	74	73	66-92	1
2-Methylnaphthalene	ug/L (ppb)	5	78	80	70-130	3
1-Methylnaphthalene	ug/L (ppb)	5	75	77	70-130	3
Hexachlorocyclopentadiene	ug/L (ppb)	5	77	81	34-126	5
2,4,6-Trichlorophenol	ug/L (ppb)	5	81	67	50-117	19
2,4,5-Trichlorophenol	ug/L (ppb)	5	80	72	59-114	11
2-Chloronaphthalene	ug/L (ppb)	5	81	82	70-130	1
2-Nitroaniline	ug/L (ppb)	15	85	85	51-146	0
Dimethyl phthalate	ug/L (ppb)	5	88	91	70-130	3
Acenaphthylene	ug/L (ppb)	5	88	88	70-130	0
2,6-Dinitrotoluene	ug/L (ppb)	5	93	91	70-130	2
3-Nitroaniline	ug/L (ppb)	15	77	83	42-134	7
Acenaphthene	ug/L (ppb)	5	82	82	70-130	0
2,4-Dinitrophenol	ug/L (ppb)	10	81	59	10-171	31 vo
Dibenzofuran	ug/L (ppb)	5	78	79	70-130	1
2,4-Dinitrotoluene	ug/L (ppb)	5	96	98	66-142	2
4-Nitrophenol	ug/L (ppb)	10	20	17	10-46	16
Diethyl phthalate	ug/L (ppb)	5	86	86	70-130	0
Fluorene	ug/L (ppb)	5	86	87	70-130	1
4-Chlorophenyl phenyl ether	ug/L (ppb)	5	84	86	70-130	2
N-Nitrosodiphenylamine	ug/L (ppb)	5	88	87	70-130	1
4-Nitroaniline	ug/L (ppb)	15	80	83	42-150	4
4,6-Dinitro-2-methylphenol	ug/L (ppb)	5	97	75	40-139	26 vo
4-Bromophenyl phenyl ether	ug/L (ppb)	5	86	85	70-130	1
Hexachlorobenzene	ug/L (ppb)	5	87	88	70-130	1
Pentachlorophenol	ug/L (ppb)	5	91	76	40-131	18
Phenanthrene	ug/L (ppb)	5	88	87	70-130	1
Anthracene	ug/L (ppb)	5	89	89	70-130	0
Carbazole	ug/L (ppb)	5	101	100	70-130	1
Di-n-butyl phthalate	ug/L (ppb)	5	82	81	64-121	1
Fluoranthene	ug/L (ppb)	5	101	99	70-130	2
Pyrene	ug/L (ppb)	5	89	90	70-130	1
Benzyl butyl phthalate	ug/L (ppb)	5	83	84	70-130	1
Benz(a)anthracene	ug/L (ppb)	5	90	91	70-130	1
Chrysene	ug/L (ppb)	5	91	92	70-130	1
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	5	77	80	70-130	4
Di-n-octyl phthalate	ug/L (ppb)	5	82	85	70-130	4
Benzo(a)pyrene	ug/L (ppb)	5	95	96	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	87	88	62-130	1
Benzo(k)fluoranthene	ug/L (ppb)	5	89	88	70-130	1
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	92	97	70-130	5
Dibenz(a,h)anthracene	ug/L (ppb)	5	91	96	70-130	5
Benzo(g,h,i)perylene	ug/L (ppb)	5	91	94	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/11/21

Date Received: 02/03/21

Project: Basin Oil, F&BI 102059

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	57	66	25-111	15
Aroclor 1260	ug/L (ppb)	0.25	66	76	23-123	14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

rlkpe@comcast.net / 672059 SAMPLE CHAIN OF CUSTODY ME 02/03/21 WVI / 413 / 603

Report To: John Feversons@hry.com
 Company: Urban Environmental Partners LLC
 Address: 2324 1st Ave Ste 203
 City, State, ZIP: Seattle
 Phone: (425) 902-9927 Email:

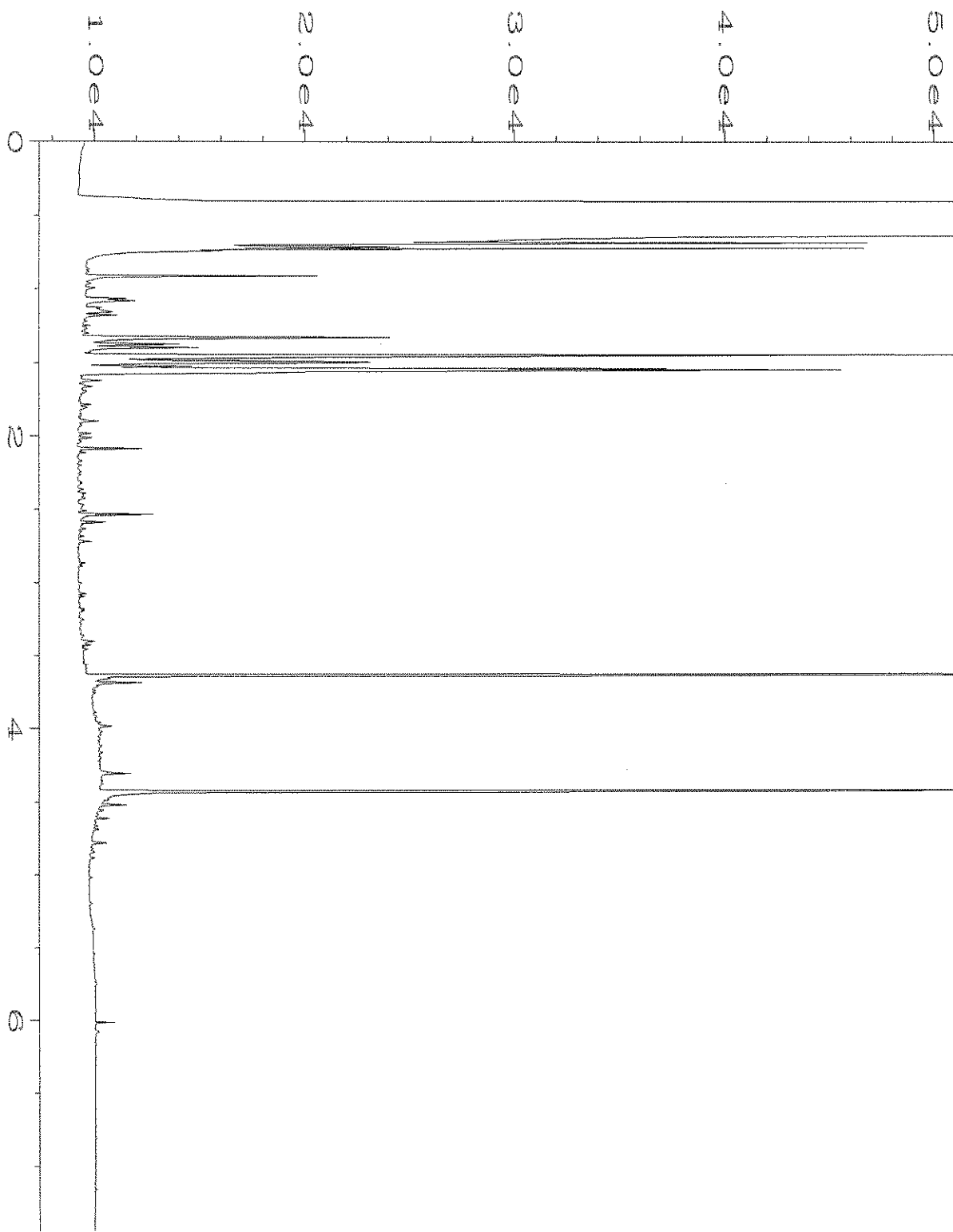
SAMPLERS (signature) Matthew D Oswald
 PROJECT NAME: Basin Oil
 PO #:
 REMARKS: UPE
 Project specific RIs? - Yes / No

Page # 1
 TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by:
 SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

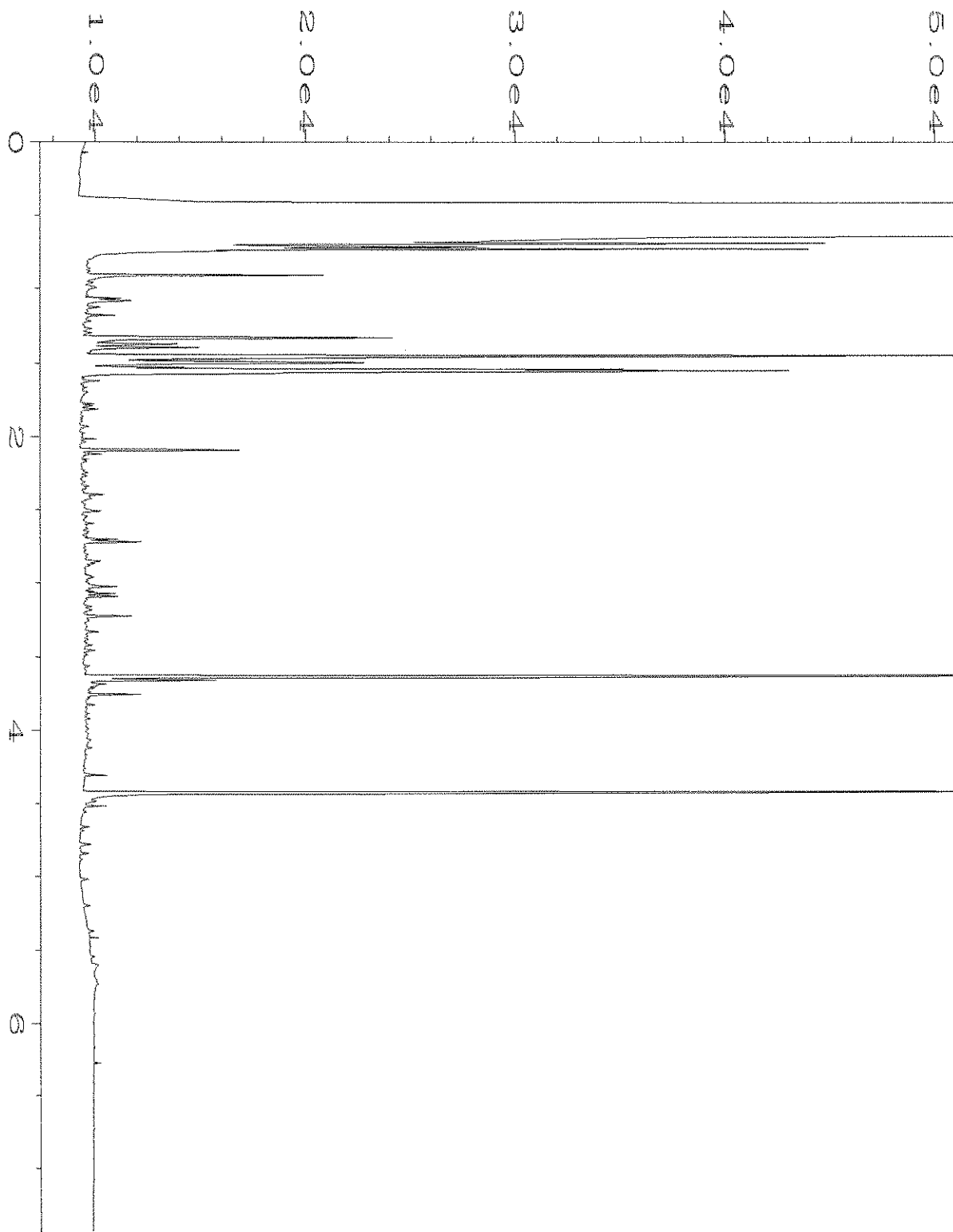
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						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	SVOCs	RCRA total	RCRA dissolved			
MDBO1	DIA-	2/3/21	1340	H ₂ O	7	X				X		X	X	X				
MLB02	ORA-	2/3/21	1600	H ₂ O	7	X				X		X	X	X				

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

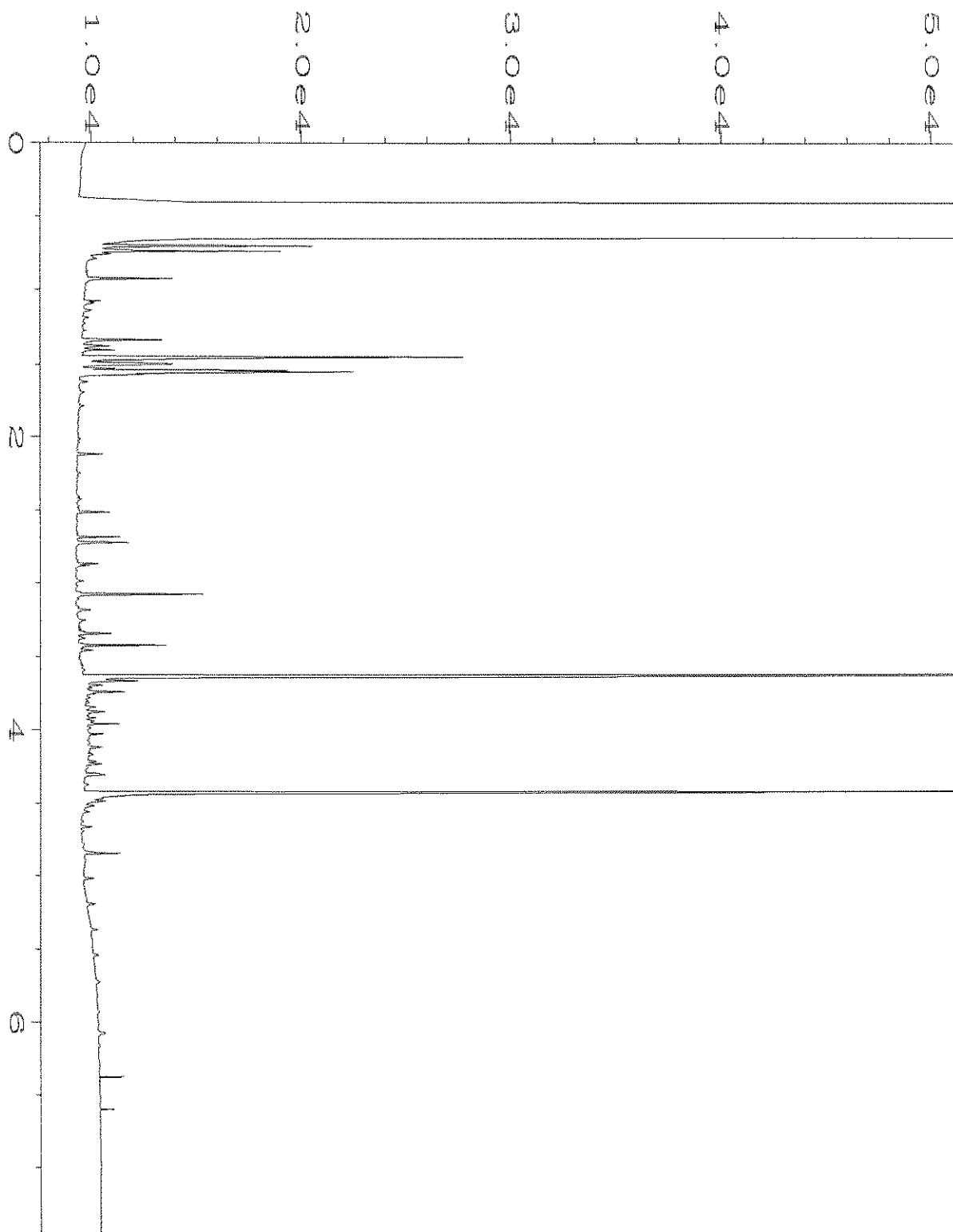
SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Matthew D Oswald</u>	<u>Matthew Oswald</u>	<u>UPE</u>	<u>2/3/21</u>	<u>17:11</u>
<u>UPE</u>	<u>UPE</u>	<u>UPE</u>	<u>2/3/21</u>	<u>17:11</u>
Received by:				
Relinquished by:				
Received by:				
Samples received at <u>200</u>				



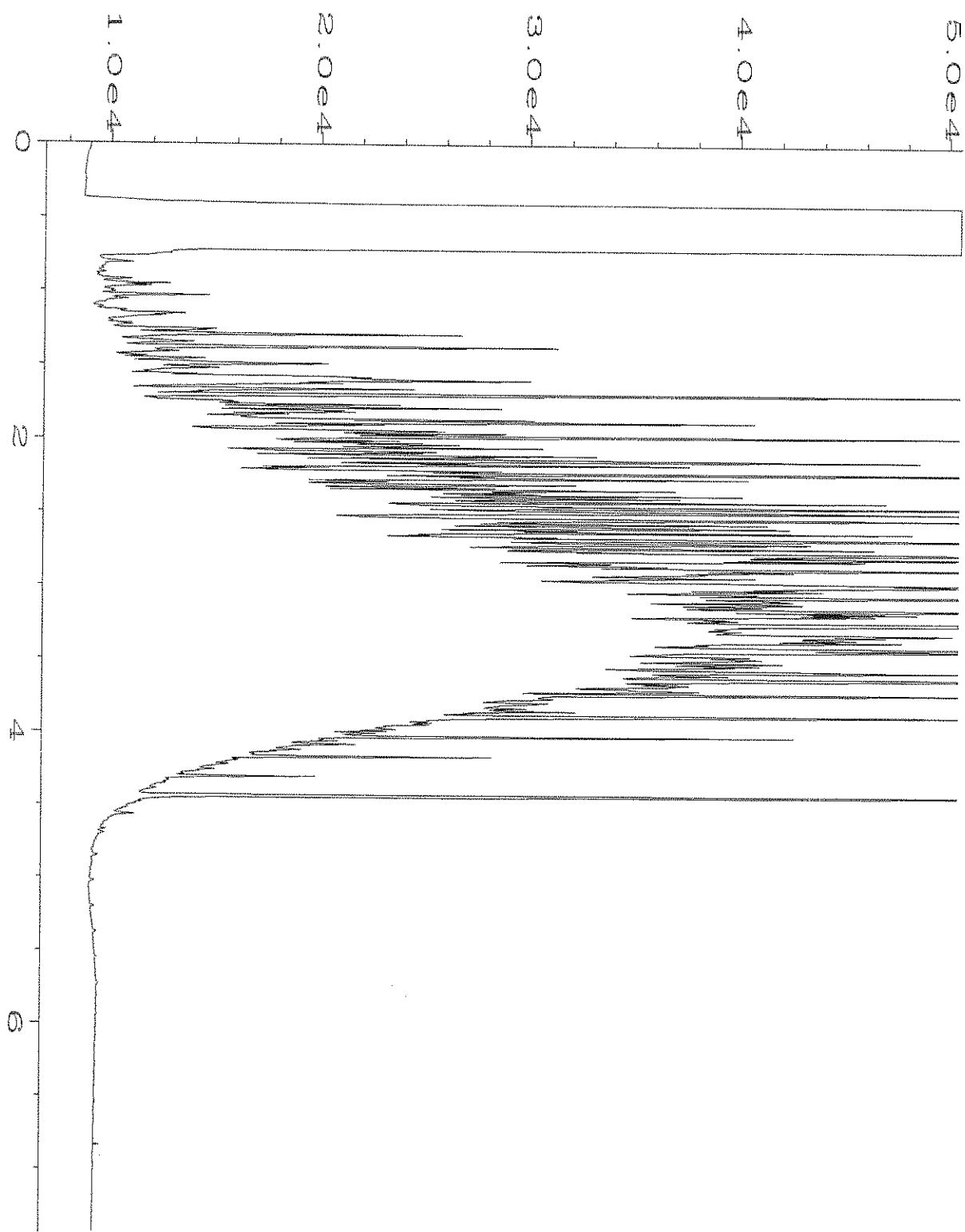
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Operator	: TL	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 102059-01	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Feb 21 01:39 PM	Analysis Method	: DX.MTH
Report Created on:	05 Feb 21 07:58 AM		



Data File Name	: C:\HPCHEM\1\DATA\02-04-21\015F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 15
Instrument	: GC1	Injection Number	: 1
Sample Name	: 102059-02	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Feb 21 01:51 PM	Analysis Method	: DX.MTH
Report Created on:	05 Feb 21 07:58 AM		



Data File Name	: C:\HPCHEM\1\DATA\02-04-21\006F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 01-285 mb2	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Feb 21 08:20 AM	Analysis Method	: DX.MTH
Report Created on:	05 Feb 21 07:58 AM		



Data File Name	: C:\HPCHEM\1\DATA\02-04-21\003F0801.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 61-146D	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Feb 21 04:26 PM	Analysis Method	: DX.MTH
Report Created on:	05 Feb 21 07:58 AM		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
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www.friedmanandbruya.com

July 2, 2021

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on June 24, 2021 from the Basin Oil, F&BI 106460 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: rkkpe@comcast.net
UEP0702R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 24, 2021 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 106460 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
106460 -01	MWB01
106460 -02	MWB02

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21
Date Received: 06/24/21
Project: Basin Oil, F&BI 106460
Date Extracted: 06/25/21
Date Analyzed: 06/25/21

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

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
MWB01 106460-01	<50	<250	94
MWB02 106460-02	<50	<250	95
Method Blank 01-1496 MB	<50	<250	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	06/24/21	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	106460-01
Date Analyzed:	06/28/21	Data File:	106460-01.059
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	7.58
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	06/24/21	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	106460-02
Date Analyzed:	06/28/21	Data File:	106460-02.060
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.20
Barium	29.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	I1-402 mb
Date Analyzed:	06/28/21	Data File:	I1-402 mb.039
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	06/24/21	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	106460-01
Date Analyzed:	06/28/21	Data File:	106460-01.063
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	7.24
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	06/24/21	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	106460-02
Date Analyzed:	06/28/21	Data File:	106460-02.064
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.11
Barium	28.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/28/21	Lab ID:	I1-402 mb
Date Analyzed:	06/28/21	Data File:	I1-402 mb.039
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	06/24/21	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/25/21	Lab ID:	106460-01
Date Analyzed:	06/25/21	Data File:	062536.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	101	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: MWB02	Client: Urban Environmental Partners
Date Received: 06/24/21	Project: Basin Oil, F&BI 106460
Date Extracted: 06/25/21	Lab ID: 106460-02
Date Analyzed: 06/25/21	Data File: 062537.D
Matrix: Water	Instrument: GCMS4
Units: ug/L (ppb)	Operator: JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	86	113
Toluene-d8	97	88	114
4-Bromofluorobenzene	100	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 106460
Date Extracted:	06/25/21	Lab ID:	01-1237 mb
Date Analyzed:	06/25/21	Data File:	062508.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	86	113
Toluene-d8	95	88	114
4-Bromofluorobenzene	100	88	112

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21

Date Received: 06/24/21

Project: Basin Oil, F&BI 106460

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	108	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21

Date Received: 06/24/21

Project: Basin Oil, F&BI 106460

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

Laboratory Code: 106462-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	1.69	102	100	75-125	2
Barium	ug/L (ppb)	50	49.1	103	108	75-125	5
Cadmium	ug/L (ppb)	5	<1	101	102	75-125	1
Chromium	ug/L (ppb)	20	<1	97	96	75-125	1
Lead	ug/L (ppb)	10	<1	91	91	75-125	0
Mercury	ug/L (ppb)	5	<1	95	96	75-125	1
Selenium	ug/L (ppb)	5	2.71	110	114	75-125	4
Silver	ug/L (ppb)	5	<1	97	98	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	102	80-120
Barium	ug/L (ppb)	50	97	80-120
Cadmium	ug/L (ppb)	5	102	80-120
Chromium	ug/L (ppb)	20	97	80-120
Lead	ug/L (ppb)	10	102	80-120
Mercury	ug/L (ppb)	5	102	80-120
Selenium	ug/L (ppb)	5	108	80-120
Silver	ug/L (ppb)	5	108	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21

Date Received: 06/24/21

Project: Basin Oil, F&BI 106460

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

Laboratory Code: 106462-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	1.69	102	100	75-125	2
Barium	ug/L (ppb)	50	49.1	103	108	75-125	5
Cadmium	ug/L (ppb)	5	<1	101	102	75-125	1
Chromium	ug/L (ppb)	20	<1	97	96	75-125	1
Lead	ug/L (ppb)	10	<1	91	91	75-125	0
Mercury	ug/L (ppb)	5	<1	95	96	75-125	1
Selenium	ug/L (ppb)	5	2.71	110	114	75-125	4
Silver	ug/L (ppb)	5	<1	97	98	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	102	80-120
Barium	ug/L (ppb)	50	97	80-120
Cadmium	ug/L (ppb)	5	102	80-120
Chromium	ug/L (ppb)	20	97	80-120
Lead	ug/L (ppb)	10	102	80-120
Mercury	ug/L (ppb)	5	102	80-120
Selenium	ug/L (ppb)	5	108	80-120
Silver	ug/L (ppb)	5	108	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21

Date Received: 06/24/21

Project: Basin Oil, F&BI 106460

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

Laboratory Code: 106454-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	100	10-172
Chloromethane	ug/L (ppb)	10	<10	86	25-166
Vinyl chloride	ug/L (ppb)	10	<0.2	87	36-166
Bromomethane	ug/L (ppb)	10	<5	100	47-169
Chloroethane	ug/L (ppb)	10	<1	87	46-160
Trichlorofluoromethane	ug/L (ppb)	10	<1	102	44-165
Acetone	ug/L (ppb)	50	<50	55	10-182
1,1-Dichloroethene	ug/L (ppb)	10	<1	86	58-142
Hexane	ug/L (ppb)	10	<5	93	38-152
Methylene chloride	ug/L (ppb)	10	<5	103	50-145
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	85	61-136
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	93	61-136
1,1-Dichloroethane	ug/L (ppb)	10	<1	92	63-135
2,2-Dichloropropane	ug/L (ppb)	10	<1	111	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	96	63-134
Chloroform	ug/L (ppb)	10	<1	96	61-135
2-Butanone (MEK)	ug/L (ppb)	50	<20	81	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<1	95	48-149
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	95	60-146
1,1-Dichloropropene	ug/L (ppb)	10	<1	100	69-133
Carbon tetrachloride	ug/L (ppb)	10	<1	90	56-152
Benzene	ug/L (ppb)	10	<0.35	95	57-135
Trichloroethene	ug/L (ppb)	10	<1	98	66-135
1,2-Dichloropropane	ug/L (ppb)	10	<1	95	59-136
Bromodichloromethane	ug/L (ppb)	10	<1	93	61-150
Dibromomethane	ug/L (ppb)	10	<1	98	66-141
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	100	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	10	<1	95	52-147
Toluene	ug/L (ppb)	10	<1	98	50-137
trans-1,3-Dichloropropene	ug/L (ppb)	10	<1	97	53-142
1,1,2-Trichloroethane	ug/L (ppb)	10	<1	98	68-131
2-Hexanone	ug/L (ppb)	50	<10	103	10-185
1,3-Dichloropropane	ug/L (ppb)	10	<1	99	60-135
Tetrachloroethene	ug/L (ppb)	10	<1	100	10-226
Dibromochloromethane	ug/L (ppb)	10	<1	95	52-145
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	102	62-135
Chlorobenzene	ug/L (ppb)	10	<1	101	63-130
Ethylbenzene	ug/L (ppb)	10	<1	101	60-133
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	99	56-143
m,p-Xylene	ug/L (ppb)	20	<2	102	69-135
o-Xylene	ug/L (ppb)	10	<1	101	60-140
Styrene	ug/L (ppb)	10	<1	100	60-133
Isopropylbenzene	ug/L (ppb)	10	<1	99	65-142
Bromoform	ug/L (ppb)	10	<5	93	54-148
n-Propylbenzene	ug/L (ppb)	10	<1	102	58-144
Bromobenzene	ug/L (ppb)	10	<1	103	61-130
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	101	59-134
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<1	104	51-154
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	104	53-150
2-Chlorotoluene	ug/L (ppb)	10	<1	101	66-127
4-Chlorotoluene	ug/L (ppb)	10	<1	100	65-130
tert-Butylbenzene	ug/L (ppb)	10	<1	101	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	101	59-146
sec-Butylbenzene	ug/L (ppb)	10	<1	103	64-140
p-Isopropyltoluene	ug/L (ppb)	10	<1	103	65-141
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	101	60-131
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	102	60-129
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	101	60-130
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	101	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	104	52-138
Hexachlorobutadiene	ug/L (ppb)	10	<1	105	60-143
Naphthalene	ug/L (ppb)	10	<1	114	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	109	69-148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/21

Date Received: 06/24/21

Project: Basin Oil, F&BI 106460

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCS/D	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	86	95	25-158	10
Chloromethane	ug/L (ppb)	10	84	81	45-156	4
Vinyl chloride	ug/L (ppb)	10	83	83	50-154	0
Bromomethane	ug/L (ppb)	10	105	103	55-143	2
Chloroethane	ug/L (ppb)	10	85	86	58-146	1
Trichlorofluoromethane	ug/L (ppb)	10	103	106	50-150	3
Acetone	ug/L (ppb)	50	55	54	22-155	2
1,1-Dichloroethene	ug/L (ppb)	10	91	91	67-136	0
Hexane	ug/L (ppb)	10	82	85	57-137	4
Methylene chloride	ug/L (ppb)	10	98	102	19-178	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	86	84	64-147	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	93	68-128	1
1,1-Dichloroethane	ug/L (ppb)	10	91	88	74-135	3
2,2-Dichloropropane	ug/L (ppb)	10	116	121	55-143	4
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	93	74-136	0
Chloroform	ug/L (ppb)	10	94	91	74-134	3
2-Butanone (MEK)	ug/L (ppb)	50	81	78	37-150	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	94	92	66-129	2
1,1,1-Trichloroethane	ug/L (ppb)	10	94	95	74-142	1
1,1-Dichloropropene	ug/L (ppb)	10	94	94	77-129	0
Carbon tetrachloride	ug/L (ppb)	10	92	88	75-158	4
Benzene	ug/L (ppb)	10	93	92	69-134	1
Trichloroethene	ug/L (ppb)	10	94	93	67-133	1
1,2-Dichloropropane	ug/L (ppb)	10	93	92	71-134	1
Bromodichloromethane	ug/L (ppb)	10	92	90	66-126	2
Dibromomethane	ug/L (ppb)	10	97	94	68-132	3
4-Methyl-2-pentanone	ug/L (ppb)	50	98	98	65-138	0
cis-1,3-Dichloropropene	ug/L (ppb)	10	92	91	74-140	1
Toluene	ug/L (ppb)	10	101	95	72-122	6
trans-1,3-Dichloropropene	ug/L (ppb)	10	98	92	80-136	6
1,1,2-Trichloroethane	ug/L (ppb)	10	101	96	75-124	5
2-Hexanone	ug/L (ppb)	50	105	98	60-136	7
1,3-Dichloropropane	ug/L (ppb)	10	101	96	76-126	5
Tetrachloroethene	ug/L (ppb)	10	100	100	76-121	0
Dibromochloromethane	ug/L (ppb)	10	98	89	84-133	10
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	104	98	82-115	6
Chlorobenzene	ug/L (ppb)	10	104	99	83-114	5
Ethylbenzene	ug/L (ppb)	10	101	98	77-124	3
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	101	96	84-127	5
m,p-Xylene	ug/L (ppb)	20	103	98	81-112	5
o-Xylene	ug/L (ppb)	10	99	98	81-121	1
Styrene	ug/L (ppb)	10	99	95	84-119	4
Isopropylbenzene	ug/L (ppb)	10	99	94	80-117	5
Bromoform	ug/L (ppb)	10	95	87	69-121	9
n-Propylbenzene	ug/L (ppb)	10	105	100	74-126	5
Bromobenzene	ug/L (ppb)	10	109	101	80-121	8
1,3,5-Trimethylbenzene	ug/L (ppb)	10	104	98	78-123	6
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	110	102	66-126	8
1,2,3-Trichloropropane	ug/L (ppb)	10	108	101	67-124	7
2-Chlorotoluene	ug/L (ppb)	10	106	98	77-127	8
4-Chlorotoluene	ug/L (ppb)	10	104	99	78-128	5
tert-Butylbenzene	ug/L (ppb)	10	105	98	80-123	7
1,2,4-Trimethylbenzene	ug/L (ppb)	10	103	97	79-122	6
sec-Butylbenzene	ug/L (ppb)	10	104	97	80-116	7
p-Isopropyltoluene	ug/L (ppb)	10	104	98	81-123	6
1,3-Dichlorobenzene	ug/L (ppb)	10	106	99	83-113	7
1,4-Dichlorobenzene	ug/L (ppb)	10	106	100	81-112	6
1,2-Dichlorobenzene	ug/L (ppb)	10	103	98	84-112	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	106	93	57-141	13
1,2,4-Trichlorobenzene	ug/L (ppb)	10	100	100	72-130	0
Hexachlorobutadiene	ug/L (ppb)	10	101	99	53-141	2
Naphthalene	ug/L (ppb)	10	105	101	64-133	4
1,2,3-Trichlorobenzene	ug/L (ppb)	10	103	101	65-136	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

106460

rk kpc @ comcast.net

SAMPLE CHAIN OF CUSTODY

06-24-21

EQ4/W11/AT5

Report To John F. Uep Consulting, Inc.

Company Urban Environmental Partners, LLC

Address 2324 1st Avenue, Ste. 203

City, State, ZIP Seattle, Wa. 98121

Phone (425) 929-9922 Email

SAMPLERS (signature)

PROJECT NAME: Basin Oil

PO #

REMARKS

INVOICE TO UEP

Project specific RIs? - Yes / No

Page #

TURNAROUND TIME

Standard turnaround

RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes on #1/21 MC	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	RCRA total	RCRA disolv	SVOCs		
MDB01	Δ1A-1L	6/24/21	0835	H ₂ O	9	X				X			X	X	X		PCB + SVOC Volume soln. Wd Notes on #1/21 MC
WUBR02	ΔRA-5	6/24/21	1030	H ₂ O	9	X				X			X	X	X		FILTERED UNPRESERVED CONCENTRATED SAMPLE Hold SVOC + PCBs
																	perm. Marc
																	sample expected
																	6/29/21 MC
																	Samples received at 4 °C

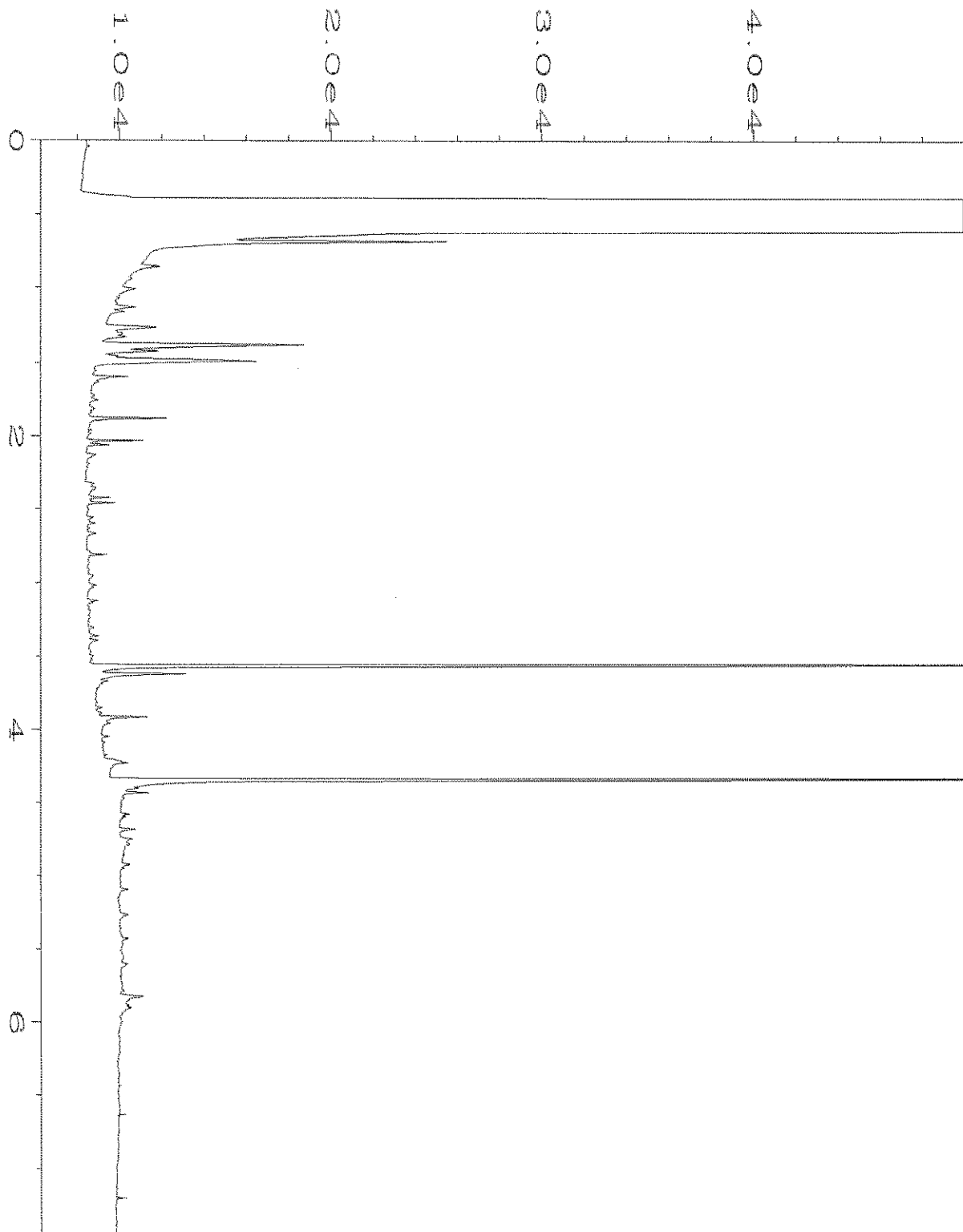
Friedman & Bruya, Inc.

3012 16th Avenue West

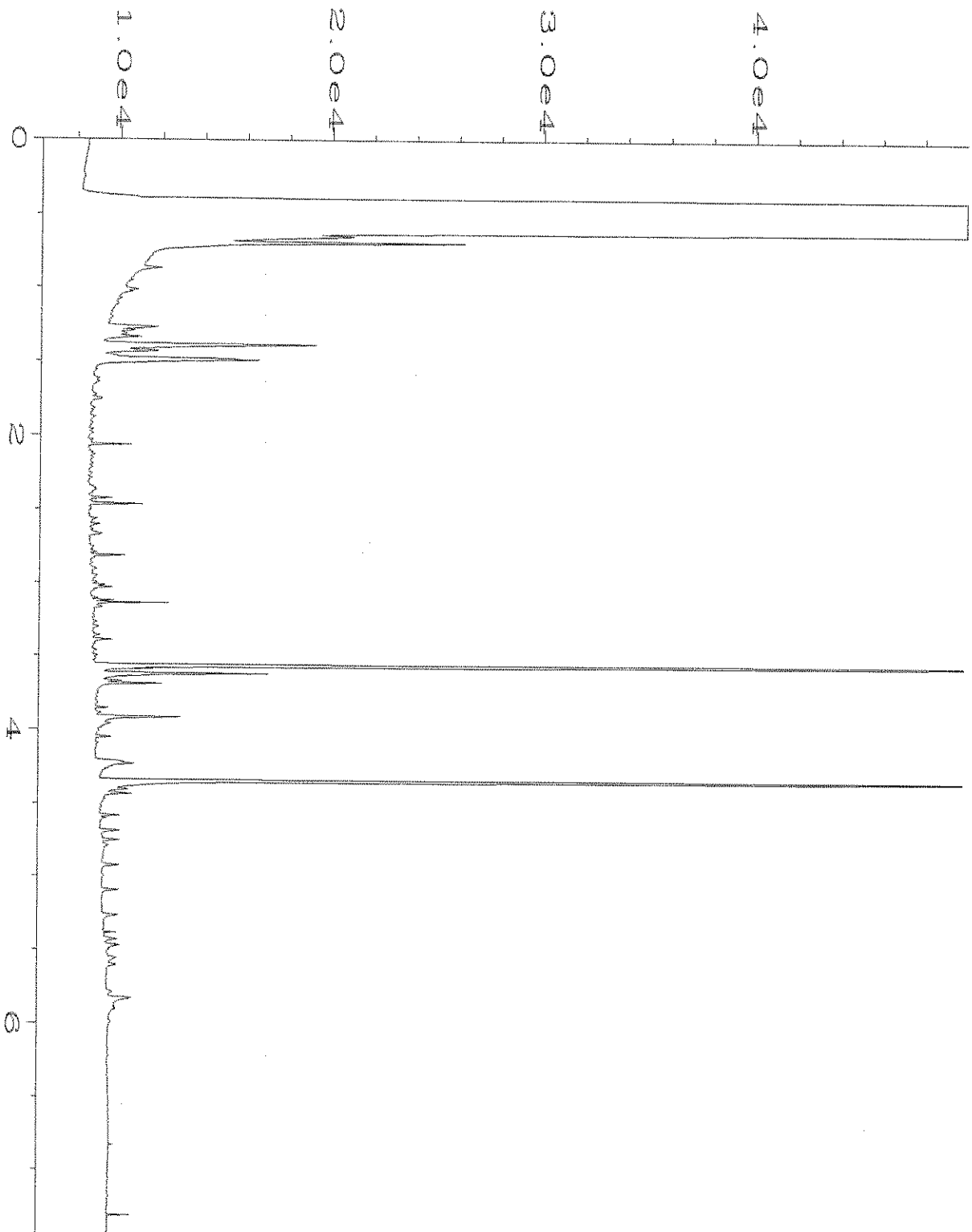
Seattle, WA 98119-2029

Ph. (206) 285-8282

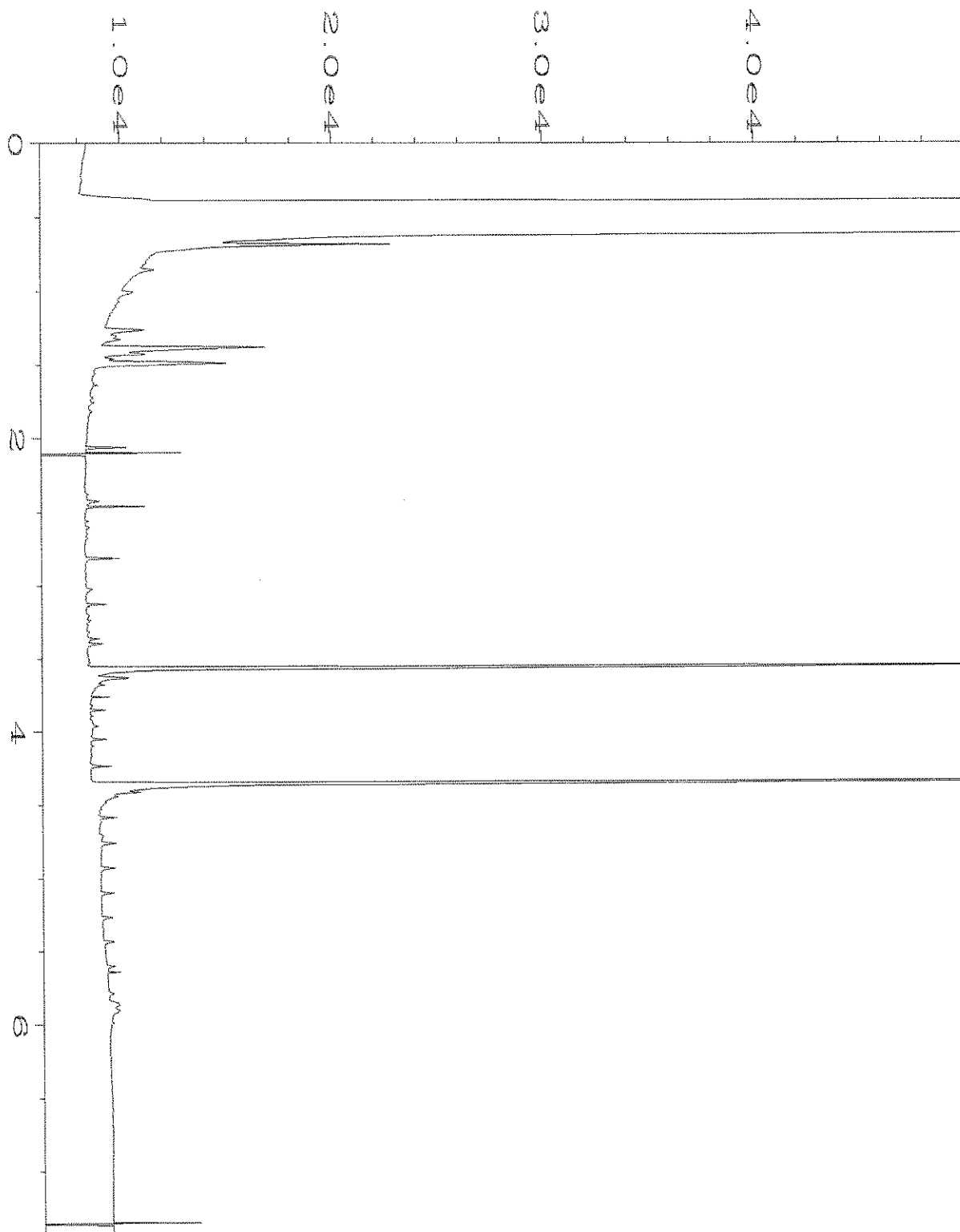
SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	Matthew D. Grundel	UEP LLC	6/24	1710
Received by:	IGT NO HARMED	IGT	6/24/21	1710
Relinquished by:				
Received by:				



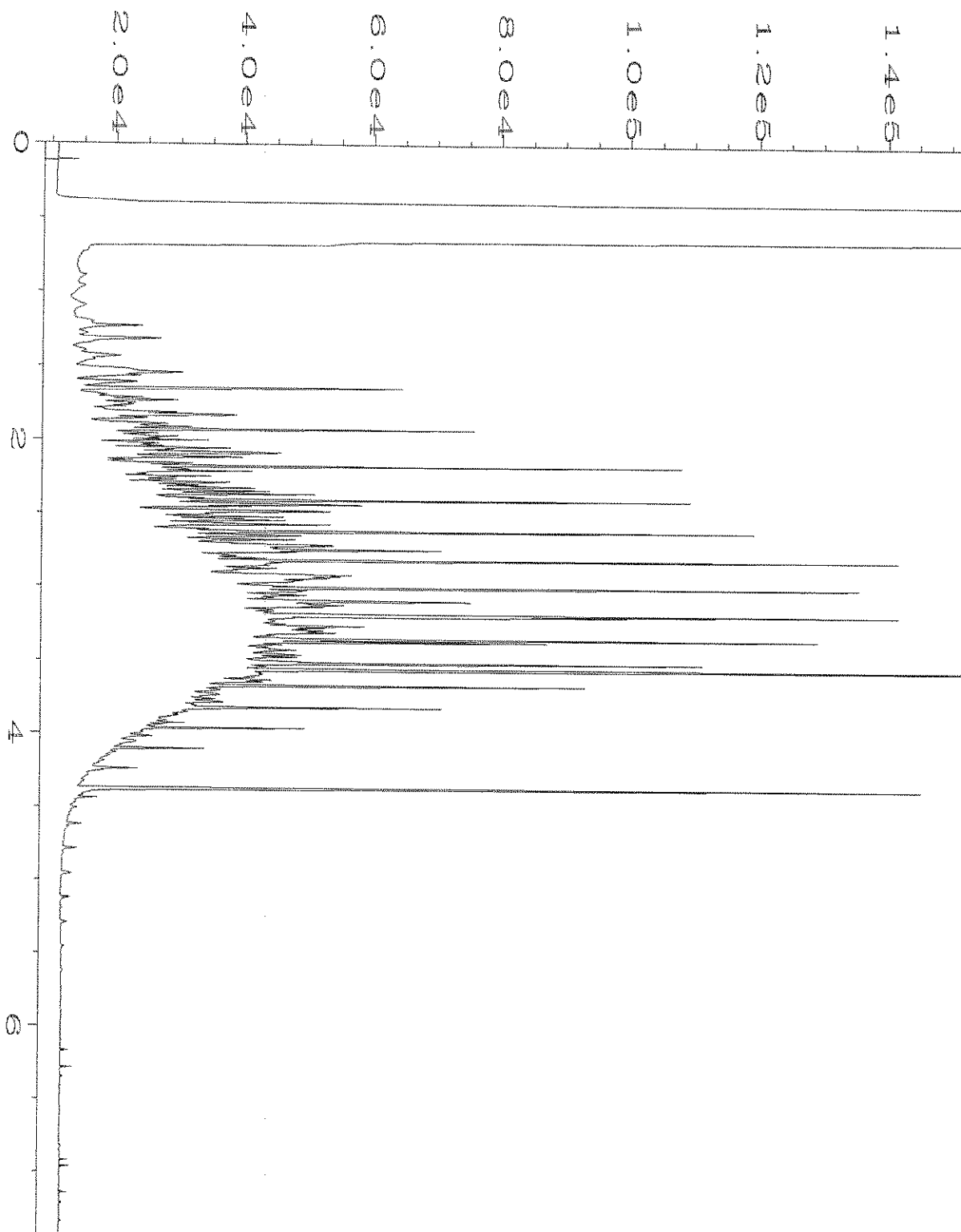
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Operator	: TL	Vial Number	: 50
Instrument	: GC1	Injection Number	: 1
Sample Name	: 106460-01	Sequence Line	: 14
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jun 21 08:45 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	28 Jun 21 09:08 AM		



Data File Name	: C:\HPCHEM\1\DATA\06-25-21\051F1401.D	Page Number	: 1
Operator	: TL	Vial Number	: 51
Instrument	: GC1	Injection Number	: 1
Sample Name	: 106460-02	Sequence Line	: 14
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jun 21 08:57 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	28 Jun 21 09:08 AM		



Data File Name	: C:\HPCHEM\1\DATA\06-25-21\043F1401.D	Page Number	: 1
Operator	: TL	Vial Number	: 43
Instrument	: GC1	Injection Number	: 1
Sample Name	: 01-1496 mb	Sequence Line	: 14
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jun 21 07:21 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	28 Jun 21 09:08 AM		



Data File Name	: C:\HPCHEM\1\DATA\06-25-21\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 63-79C	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jun 21 06:56 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	28 Jun 21 09:06 AM		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

July 9, 2021

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on July 1, 2021 from the Basin Oil, F&BI 107003 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: rkkpc@comcast.net, Matthew Grunwald
UEP0709R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 1, 2021 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 107003 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
107003 -01	MW-B01
107003 -02	MW-B02

Several compounds in the 8270E laboratory control sample and laboratory control sample duplicate failed the acceptance criteria. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	07/01/21	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/02/21	Lab ID:	107003-01
Date Analyzed:	07/02/21	Data File:	070215.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	16	10	60
Phenol-d6	15	10	49
Nitrobenzene-d5	78	15	144
2-Fluorobiphenyl	73	25	128
2,4,6-Tribromophenol	46	10	142
Terphenyl-d14	88	41	138

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1 jl
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2 jl
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 jl	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6 jl	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1 jl	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	07/01/21	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/02/21	Lab ID:	107003-02
Date Analyzed:	07/02/21	Data File:	070216.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	20	10	60
Phenol-d6	16	10	49
Nitrobenzene-d5	75	15	144
2-Fluorobiphenyl	69	25	128
2,4,6-Tribromophenol	56	10	142
Terphenyl-d14	86	41	138

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1 jl
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2 jl
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 jl	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6 jl	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1 jl	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/02/21	Lab ID:	01-1542 mb
Date Analyzed:	07/06/21	Data File:	070608.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	15	11	65
Phenol-d6	12	11	65
Nitrobenzene-d5	77	50	150
2-Fluorobiphenyl	76	50	150
2,4,6-Tribromophenol	60	30	131
Terphenyl-d14	93	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1 jl
Benzyl alcohol	<2	4-Nitrophenol	<6
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2 jl
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 jl	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6 jl	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1 jl	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	07/01/21	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/01/21	Lab ID:	107003-01
Date Analyzed:	07/02/21	Data File:	070206.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	49	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	07/01/21	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/01/21	Lab ID:	107003-02
Date Analyzed:	07/02/21	Data File:	070207.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	43	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 107003
Date Extracted:	07/01/21	Lab ID:	01-1532 mb2
Date Analyzed:	07/02/21	Data File:	070204.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	42	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/21

Date Received: 07/01/21

Project: Basin Oil, F&BI 107003

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCS	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	5	13	12	10-86	8
Bis(2-chloroethyl) ether	ug/L (ppb)	5	65	66	61-89	2
2-Chlorophenol	ug/L (ppb)	5	56	56	10-89	0
1,3-Dichlorobenzene	ug/L (ppb)	5	67	67	48-91	0
1,4-Dichlorobenzene	ug/L (ppb)	5	65	67	48-91	3
1,2-Dichlorobenzene	ug/L (ppb)	5	68	71	52-92	4
Benzyl alcohol	ug/L (ppb)	15	40	42	10-72	5
2,2'-Oxybis(1-chloropropane)	ug/L (ppb)	5	65	66	62-86	2
2-Methylphenol	ug/L (ppb)	5	44	42	10-75	5
Hexachloroethane	ug/L (ppb)	5	66	70	47-92	6
N-Nitroso-di-n-propylamine	ug/L (ppb)	5	76	80	70-130	5
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	5	36	37	10-66	3
Nitrobenzene	ug/L (ppb)	5	67	67	60-90	0
Isophorone	ug/L (ppb)	5	74	77	70-130	4
2-Nitrophenol	ug/L (ppb)	5	67	66	27-104	2
2,4-Dimethylphenol	ug/L (ppb)	5	50	54	10-84	8
Benzoic acid	ug/L (ppb)	40	8 vo	8 vo	10-102	0
Bis(2-chloroethoxy)methane	ug/L (ppb)	5	71	74	70-130	4
2,4-Dichlorophenol	ug/L (ppb)	5	70	69	23-103	1
1,2,4-Trichlorobenzene	ug/L (ppb)	5	68	70	56-93	3
Naphthalene	ug/L (ppb)	5	70	72	62-90	3
Hexachlorobutadiene	ug/L (ppb)	5	65	67	48-85	3
4-Chloroaniline	ug/L (ppb)	15	71	73	48-99	3
4-Chloro-3-methylphenol	ug/L (ppb)	5	70	70	20-108	0
2-Methylnaphthalene	ug/L (ppb)	5	73	76	64-93	4
1-Methylnaphthalene	ug/L (ppb)	5	72	75	65-93	4
Hexachlorocyclopentadiene	ug/L (ppb)	5	70	61 vo	62-107	14
2,4,6-Trichlorophenol	ug/L (ppb)	5	68	62	16-112	9
2,4,5-Trichlorophenol	ug/L (ppb)	5	71	65	26-113	9
2-Chloronaphthalene	ug/L (ppb)	5	73	72	69-97	1
2-Nitroaniline	ug/L (ppb)	15	67 vo	66 vo	69-154	2
Dimethyl phthalate	ug/L (ppb)	5	81	81	70-130	0
Acenaphthylene	ug/L (ppb)	5	78	76	70-130	3
2,6-Dinitrotoluene	ug/L (ppb)	5	82	80	70-130	2
3-Nitroaniline	ug/L (ppb)	15	68	70	55-106	3
Acenaphthene	ug/L (ppb)	5	77	75	70-130	3
2,4-Dinitrophenol	ug/L (ppb)	10	61	56	10-120	9
Dibenzofuran	ug/L (ppb)	5	83	81	70-130	2
2,4-Dinitrotoluene	ug/L (ppb)	5	70	69 vo	70-130	1
4-Nitrophenol	ug/L (ppb)	10	15	13	10-89	14
Diethyl phthalate	ug/L (ppb)	5	79	76	70-130	4
Fluorene	ug/L (ppb)	5	77	77	70-130	0
4-Chlorophenyl phenyl ether	ug/L (ppb)	5	75	74	70-130	1
N-Nitrosodiphenylamine	ug/L (ppb)	5	84	88	70-130	5
4-Nitroaniline	ug/L (ppb)	15	78	86	50-109	10
4,6-Dinitro-2-methylphenol	ug/L (ppb)	5	75	74	10-139	1
4-Bromophenyl phenyl ether	ug/L (ppb)	5	85	86	70-130	1
Hexachlorobenzene	ug/L (ppb)	5	68 vo	71	70-130	4
Pentachlorophenol	ug/L (ppb)	5	76	72	10-129	5
Phenanthrene	ug/L (ppb)	5	82	84	70-130	2
Anthracene	ug/L (ppb)	5	82	86	70-130	5
Carbazole	ug/L (ppb)	5	89	95	70-130	7
Di-n-butyl phthalate	ug/L (ppb)	5	76	78	70-130	3
Fluoranthene	ug/L (ppb)	5	87	93	70-130	7
Pyrene	ug/L (ppb)	5	93	87	70-130	7
Benzyl butyl phthalate	ug/L (ppb)	5	79	80	67-122	1
Benz(a)anthracene	ug/L (ppb)	5	89	89	70-130	0
Chrysene	ug/L (ppb)	5	89	88	70-130	1
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	5	90	91	70-130	1
Di-n-octyl phthalate	ug/L (ppb)	5	73	79	70-130	8
Benzo(a)pyrene	ug/L (ppb)	5	88	89	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	90	91	70-130	1
Benzo(k)fluoranthene	ug/L (ppb)	5	83	85	70-130	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	102	99	70-130	3
Dibenz(a,h)anthracene	ug/L (ppb)	5	98	95	70-130	3
Benzo(g,h,i)perylene	ug/L (ppb)	5	98	93	70-130	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/21

Date Received: 07/01/21

Project: Basin Oil, F&BI 107003

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/0.25

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	66	64	25-111	3
Aroclor 1260	ug/L (ppb)	0.13	77	80	23-123	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

rhp@comcast.net 107003

SAMPLE CHAIN OF CUSTODY

07-01-21

Page # 1 of 1

Report To John Dejeu John Dejeu

Company Urban Environmental Partners

Address 2324 1st Ave Ste 203

City, State, ZIP Seattle, WA

Phone (425) 922 9922 Email _____

SAMPLE FR'S (signature) <u>Walter W. Gussard</u>	PO #
PROJECT NAME <u>Basin Oil</u>	INVOICE TO <u>UEP</u>
REMARKS	Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		DOBS	
MU-B01	01 A-D	7/1/21	0700	H ₂ O	4							X	X		
MU-B02	02 ↓	7/1/21	0745	H ₂ O	4							X	+		

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Walter W. Gussard</u>		<u>W. Gussard</u>		<u>UEP Inc</u>		<u>07/1/21</u>	<u>0838</u>
Received by: <u>Ann W Burger</u>		<u>Ann W Burger</u>		<u>UEP</u>		<u>7/1/21</u>	<u>0838</u>
Relinquished by:							
Received by:							

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 12, 2021

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on October 1, 2021 from the Basin Oil, F&BI 110004 project. There are 25 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: rkkpe@comcast.net
UEP1012R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 1, 2021 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 110004 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
110004 -01	MWB01
110004 -02	MWB02

The dissolved metals samples were filtered at Friedman and Bruya on October 1, 2021 at 07:27. The data were flagged accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21
Date Received: 10/01/21
Project: Basin Oil, F&BI 110004
Date Extracted: 10/04/21
Date Analyzed: 10/04/21

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

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
MWB01 110004-01	<65	<320	95
MWB02 110004-02	<65	<320	93
Method Blank 01-2268 MB	<50	<250	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB01 f	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	110004-01
Date Analyzed:	10/04/21	Data File:	110004-01.075
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	7.18
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MWB02 f	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	110004-02
Date Analyzed:	10/04/21	Data File:	110004-02.076
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.11
Barium	28.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank f	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	I1-621 mb
Date Analyzed:	10/04/21	Data File:	I1-621 mb.055
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/06/21	Lab ID:	110004-01
Date Analyzed:	10/06/21	Data File:	110004-01.185
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	6.76
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/06/21	Lab ID:	110004-02
Date Analyzed:	10/07/21	Data File:	110004-02.188
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.22
Barium	29.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/06/21	Lab ID:	I1-628 mb
Date Analyzed:	10/06/21	Data File:	I1-628 mb.045
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	110004-01
Date Analyzed:	10/04/21	Data File:	100419.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	100	90	111

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	110004-02
Date Analyzed:	10/04/21	Data File:	100420.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	85	117
Toluene-d8	107	88	112
4-Bromofluorobenzene	98	90	111

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/04/21	Lab ID:	01-2216 mb
Date Analyzed:	10/05/21	Data File:	100518.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	100	88	112
4-Bromofluorobenzene	101	90	111

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/01/21	Lab ID:	110004-01 1/2
Date Analyzed:	10/01/21	Data File:	100115.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	31	10	60
Phenol-d6	25	10	49
Nitrobenzene-d5	79	15	144
2-Fluorobiphenyl	72	25	128
2,4,6-Tribromophenol	76	10	142
Terphenyl-d14	102	41	138

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<4 j1	2,6-Dinitrotoluene	<2
Bis(2-chloroethyl) ether	<0.4	3-Nitroaniline	<40
2-Chlorophenol	<4	Acenaphthene	<0.04
1,3-Dichlorobenzene	<0.4	2,4-Dinitrophenol	<12
1,4-Dichlorobenzene	<0.4	Dibenzofuran	<0.4
1,2-Dichlorobenzene	<0.4	2,4-Dinitrotoluene	<2
Benzyl alcohol	<4	4-Nitrophenol	<12 j1
2,2'-Oxybis(1-chloropropane)	<0.4	Diethyl phthalate	<4
2-Methylphenol	<4	Fluorene	<0.04
Hexachloroethane	<0.4	4-Chlorophenyl phenyl ether	<0.4
N-Nitroso-di-n-propylamine	<0.4	N-Nitrosodiphenylamine	<0.4
3-Methylphenol + 4-Methylphenol	<8	4-Nitroaniline	<40
Nitrobenzene	<0.4	4,6-Dinitro-2-methylphenol	<12
Isophorone	<0.4	4-Bromophenyl phenyl ether	<0.4
2-Nitrophenol	<4	Hexachlorobenzene	<0.4
2,4-Dimethylphenol	<4	Pentachlorophenol	<2
Benzoic acid	<20 j1	Phenanthrene	<0.04
Bis(2-chloroethoxy)methane	<0.4	Anthracene	<0.04
2,4-Dichlorophenol	<4	Carbazole	<0.4
1,2,4-Trichlorobenzene	<0.4	Di-n-butyl phthalate	<4
Naphthalene	<0.4	Fluoranthene	<0.04
Hexachlorobutadiene	<0.4	Pyrene	<0.04
4-Chloroaniline	<40	Benzyl butyl phthalate	<4
4-Chloro-3-methylphenol	<4	Benz(a)anthracene	<0.04
2-Methylnaphthalene	<0.4	Chrysene	<0.04
1-Methylnaphthalene	<0.4	Bis(2-ethylhexyl) phthalate	<6.4
Hexachlorocyclopentadiene	<1.2	Di-n-octyl phthalate	<4
2,4,6-Trichlorophenol	<4	Benzo(a)pyrene	<0.04
2,4,5-Trichlorophenol	<4	Benzo(b)fluoranthene	<0.04
2-Chloronaphthalene	<0.4	Benzo(k)fluoranthene	<0.04
2-Nitroaniline	<2	Indeno(1,2,3-cd)pyrene	<0.04
Dimethyl phthalate	<4	Dibenz(a,h)anthracene	<0.04
Acenaphthylene	<0.04	Benzo(g,h,i)perylene	<0.08

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/01/21	Lab ID:	110004-02 1/2
Date Analyzed:	10/01/21	Data File:	100116.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	43	10	60
Phenol-d6	33	10	49
Nitrobenzene-d5	103	15	144
2-Fluorobiphenyl	95	25	128
2,4,6-Tribromophenol	80	10	142
Terphenyl-d14	99	41	138

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<4 j1	2,6-Dinitrotoluene	<2
Bis(2-chloroethyl) ether	<0.4	3-Nitroaniline	<40
2-Chlorophenol	<4	Acenaphthene	<0.04
1,3-Dichlorobenzene	<0.4	2,4-Dinitrophenol	<12
1,4-Dichlorobenzene	<0.4	Dibenzofuran	<0.4
1,2-Dichlorobenzene	<0.4	2,4-Dinitrotoluene	<2
Benzyl alcohol	<4	4-Nitrophenol	<12 j1
2,2'-Oxybis(1-chloropropane)	<0.4	Diethyl phthalate	<4
2-Methylphenol	<4	Fluorene	<0.04
Hexachloroethane	<0.4	4-Chlorophenyl phenyl ether	<0.4
N-Nitroso-di-n-propylamine	<0.4	N-Nitrosodiphenylamine	<0.4
3-Methylphenol + 4-Methylphenol	<8	4-Nitroaniline	<40
Nitrobenzene	<0.4	4,6-Dinitro-2-methylphenol	<12
Isophorone	<0.4	4-Bromophenyl phenyl ether	<0.4
2-Nitrophenol	<4	Hexachlorobenzene	<0.4
2,4-Dimethylphenol	<4	Pentachlorophenol	<2
Benzoic acid	<20 j1	Phenanthrene	<0.04
Bis(2-chloroethoxy)methane	<0.4	Anthracene	<0.04
2,4-Dichlorophenol	<4	Carbazole	<0.4
1,2,4-Trichlorobenzene	<0.4	Di-n-butyl phthalate	<4
Naphthalene	<0.4	Fluoranthene	<0.04
Hexachlorobutadiene	<0.4	Pyrene	<0.04
4-Chloroaniline	<40	Benzyl butyl phthalate	<4
4-Chloro-3-methylphenol	<4	Benz(a)anthracene	<0.04
2-Methylnaphthalene	<0.4	Chrysene	<0.04
1-Methylnaphthalene	<0.4	Bis(2-ethylhexyl) phthalate	<6.4
Hexachlorocyclopentadiene	<1.2	Di-n-octyl phthalate	<4
2,4,6-Trichlorophenol	<4	Benzo(a)pyrene	<0.04
2,4,5-Trichlorophenol	<4	Benzo(b)fluoranthene	<0.04
2-Chloronaphthalene	<0.4	Benzo(k)fluoranthene	<0.04
2-Nitroaniline	<2	Indeno(1,2,3-cd)pyrene	<0.04
Dimethyl phthalate	<4	Dibenz(a,h)anthracene	<0.04
Acenaphthylene	<0.04	Benzo(g,h,i)perylene	<0.08

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/01/21	Lab ID:	01-2260 mb2
Date Analyzed:	10/01/21	Data File:	100113.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	15	10	60
Phenol-d6	13	10	49
Nitrobenzene-d5	94	15	144
2-Fluorobiphenyl	87	25	128
2,4,6-Tribromophenol	54	10	142
Terphenyl-d14	103	41	138

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<2 jl	2,6-Dinitrotoluene	<1
Bis(2-chloroethyl) ether	<0.2	3-Nitroaniline	<20
2-Chlorophenol	<2	Acenaphthene	<0.02
1,3-Dichlorobenzene	<0.2	2,4-Dinitrophenol	<6
1,4-Dichlorobenzene	<0.2	Dibenzofuran	<0.2
1,2-Dichlorobenzene	<0.2	2,4-Dinitrotoluene	<1
Benzyl alcohol	<2	4-Nitrophenol	<6 jl
2,2'-Oxybis(1-chloropropane)	<0.2	Diethyl phthalate	<2
2-Methylphenol	<2	Fluorene	<0.02
Hexachloroethane	<0.2	4-Chlorophenyl phenyl ether	<0.2
N-Nitroso-di-n-propylamine	<0.2	N-Nitrosodiphenylamine	<0.2
3-Methylphenol + 4-Methylphenol	<4	4-Nitroaniline	<20
Nitrobenzene	<0.2	4,6-Dinitro-2-methylphenol	<6
Isophorone	<0.2	4-Bromophenyl phenyl ether	<0.2
2-Nitrophenol	<2	Hexachlorobenzene	<0.2
2,4-Dimethylphenol	<2	Pentachlorophenol	<1
Benzoic acid	<10 jl	Phenanthrene	<0.02
Bis(2-chloroethoxy)methane	<0.2	Anthracene	<0.02
2,4-Dichlorophenol	<2	Carbazole	<0.2
1,2,4-Trichlorobenzene	<0.2	Di-n-butyl phthalate	<2
Naphthalene	<0.2	Fluoranthene	<0.02
Hexachlorobutadiene	<0.2	Pyrene	<0.02
4-Chloroaniline	<20	Benzyl butyl phthalate	<2
4-Chloro-3-methylphenol	<2	Benz(a)anthracene	<0.02
2-Methylnaphthalene	<0.2	Chrysene	<0.02
1-Methylnaphthalene	<0.2	Bis(2-ethylhexyl) phthalate	<3.2
Hexachlorocyclopentadiene	<0.6	Di-n-octyl phthalate	<2
2,4,6-Trichlorophenol	<2	Benzo(a)pyrene	<0.02
2,4,5-Trichlorophenol	<2	Benzo(b)fluoranthene	<0.02
2-Chloronaphthalene	<0.2	Benzo(k)fluoranthene	<0.02
2-Nitroaniline	<1	Indeno(1,2,3-cd)pyrene	<0.02
Dimethyl phthalate	<2	Dibenz(a,h)anthracene	<0.02
Acenaphthylene	<0.02	Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MWB01	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/05/21	Lab ID:	110004-01
Date Analyzed:	10/06/21	Data File:	100611.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	37	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MWB02	Client:	Urban Environmental Partners
Date Received:	10/01/21	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/05/21	Lab ID:	110004-02
Date Analyzed:	10/06/21	Data File:	100612.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	46	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 110004
Date Extracted:	10/05/21	Lab ID:	01-2276 mb2
Date Analyzed:	10/06/21	Data File:	100610.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	44	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	80	63-142	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	95	92	80-120	3
Barium	ug/L (ppb)	50	96	94	80-120	2
Cadmium	ug/L (ppb)	5	92	91	80-120	1
Chromium	ug/L (ppb)	20	98	96	80-120	2
Lead	ug/L (ppb)	10	96	94	80-120	2
Mercury	ug/L (ppb)	5	93	96	80-120	3
Selenium	ug/L (ppb)	5	90	89	80-120	1
Silver	ug/L (ppb)	5	98	95	80-120	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: 110004-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	111	109	75-125	2
Barium	ug/L (ppb)	50	6.76	97	96	75-125	1
Cadmium	ug/L (ppb)	5	<1	97	97	75-125	0
Chromium	ug/L (ppb)	20	<1	108	105	75-125	3
Lead	ug/L (ppb)	10	<1	91	90	75-125	1
Mercury	ug/L (ppb)	5	<1	100	99	75-125	1
Selenium	ug/L (ppb)	5	<1	126 vo	122	75-125	3
Silver	ug/L (ppb)	5	<1	105	105	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	96	80-120
Barium	ug/L (ppb)	50	95	80-120
Cadmium	ug/L (ppb)	5	95	80-120
Chromium	ug/L (ppb)	20	99	80-120
Lead	ug/L (ppb)	10	96	80-120
Mercury	ug/L (ppb)	5	104	80-120
Selenium	ug/L (ppb)	5	98	80-120
Silver	ug/L (ppb)	5	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: 110023-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	105	50-150
Chloromethane	ug/L (ppb)	10	<10	103	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	100	16-176
Bromomethane	ug/L (ppb)	10	<5	96	10-193
Chloroethane	ug/L (ppb)	10	<1	88	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	104	50-150
Acetone	ug/L (ppb)	50	<50	77	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	109	50-150
Hexane	ug/L (ppb)	10	<5	85	49-161
Methylene chloride	ug/L (ppb)	10	<5	108	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	92	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	98	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	93	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	99	50-150
Chloroform	ug/L (ppb)	10	<1	93	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	95	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	98	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	96	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	93	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	96	50-150
Benzene	ug/L (ppb)	10	<0.35	95	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	93	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	96	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	97	50-150
Dibromomethane	ug/L (ppb)	10	<1	101	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	104	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	93	48-145
Toluene	ug/L (ppb)	10	<1	92	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	92	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	100	50-150
2-Hexanone	ug/L (ppb)	50	<10	101	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	95	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	94	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	99	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	98	50-150
Chlorobenzene	ug/L (ppb)	10	<1	94	50-150
Ethylbenzene	ug/L (ppb)	10	<1	94	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	99	50-150
m,p-Xylene	ug/L (ppb)	20	<2	96	50-150
o-Xylene	ug/L (ppb)	10	<1	93	50-150
Styrene	ug/L (ppb)	10	<1	93	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	93	50-150
Bromoform	ug/L (ppb)	10	<5	98	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	94	50-150
Bromobenzene	ug/L (ppb)	10	<1	91	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	96	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	101	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	98	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	92	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	93	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	93	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	94	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	95	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	93	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	93	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	92	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	89	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	94	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	79	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	89	42-150
Naphthalene	ug/L (ppb)	10	<1	66	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	76	44-155

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	111	109	70-130	2
Chloromethane	ug/L (ppb)	10	99	102	70-130	3
Vinyl chloride	ug/L (ppb)	10	103	97	70-130	6
Bromomethane	ug/L (ppb)	10	111	92	28-182	19
Chloroethane	ug/L (ppb)	10	101	91	70-130	10
Trichlorofluoromethane	ug/L (ppb)	10	97	96	70-130	1
Acetone	ug/L (ppb)	50	71	67	42-155	6
1,1-Dichloroethene	ug/L (ppb)	10	103	101	70-130	2
Hexane	ug/L (ppb)	10	71	91	50-161	25 vo
Methylene chloride	ug/L (ppb)	10	101	101	29-192	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	89	90	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	94	95	70-130	1
1,1-Dichloroethane	ug/L (ppb)	10	94	93	70-130	1
2,2-Dichloropropane	ug/L (ppb)	10	89	92	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	96	96	70-130	0
Chloroform	ug/L (ppb)	10	90	90	70-130	0
2-Butanone (MEK)	ug/L (ppb)	50	82	81	50-157	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	95	95	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	94	94	70-130	0
1,1-Dichloropropene	ug/L (ppb)	10	92	89	70-130	3
Carbon tetrachloride	ug/L (ppb)	10	94	91	70-130	3
Benzene	ug/L (ppb)	10	93	93	70-130	0
Trichloroethene	ug/L (ppb)	10	89	90	70-130	1
1,2-Dichloropropane	ug/L (ppb)	10	95	95	70-130	0
Bromodichloromethane	ug/L (ppb)	10	95	95	70-130	0
Dibromomethane	ug/L (ppb)	10	99	97	70-130	2
4-Methyl-2-pentanone	ug/L (ppb)	50	106	102	70-130	4
cis-1,3-Dichloropropene	ug/L (ppb)	10	94	93	70-130	1
Toluene	ug/L (ppb)	10	91	91	70-130	0
trans-1,3-Dichloropropene	ug/L (ppb)	10	93	91	70-130	2
1,1,2-Trichloroethane	ug/L (ppb)	10	100	99	70-130	1
2-Hexanone	ug/L (ppb)	50	103	99	69-130	4
1,3-Dichloropropane	ug/L (ppb)	10	94	95	70-130	1
Tetrachloroethene	ug/L (ppb)	10	91	93	70-130	2
Dibromochloromethane	ug/L (ppb)	10	100	100	63-142	0
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	99	98	70-130	1
Chlorobenzene	ug/L (ppb)	10	94	94	70-130	0
Ethylbenzene	ug/L (ppb)	10	94	94	70-130	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	99	96	70-130	3
m,p-Xylene	ug/L (ppb)	20	96	96	70-130	0
o-Xylene	ug/L (ppb)	10	94	94	70-130	0
Styrene	ug/L (ppb)	10	95	95	70-130	0
Isopropylbenzene	ug/L (ppb)	10	92	94	70-130	2
Bromoform	ug/L (ppb)	10	104	99	50-157	5
n-Propylbenzene	ug/L (ppb)	10	92	90	70-130	2
Bromobenzene	ug/L (ppb)	10	94	92	70-130	2
1,3,5-Trimethylbenzene	ug/L (ppb)	10	94	93	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	100	96	70-130	4
1,2,3-Trichloropropane	ug/L (ppb)	10	99	95	70-130	4
2-Chlorotoluene	ug/L (ppb)	10	92	91	70-130	1
4-Chlorotoluene	ug/L (ppb)	10	94	92	70-130	2
tert-Butylbenzene	ug/L (ppb)	10	91	87	70-130	4
1,2,4-Trimethylbenzene	ug/L (ppb)	10	93	91	70-130	2
sec-Butylbenzene	ug/L (ppb)	10	92	91	70-130	1
p-Isopropyltoluene	ug/L (ppb)	10	90	90	70-130	0
1,3-Dichlorobenzene	ug/L (ppb)	10	95	92	70-130	3
1,4-Dichlorobenzene	ug/L (ppb)	10	95	92	70-130	3
1,2-Dichlorobenzene	ug/L (ppb)	10	92	91	70-130	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	99	94	70-130	5
1,2,4-Trichlorobenzene	ug/L (ppb)	10	86	84	70-130	2
Hexachlorobutadiene	ug/L (ppb)	10	81	81	70-130	0
Naphthalene	ug/L (ppb)	10	89	86	70-130	3
1,2,3-Trichlorobenzene	ug/L (ppb)	10	85	82	69-143	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

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

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	2.5	9 vo	9 vo	10-86	0
Bis(2-chloroethyl) ether	ug/L (ppb)	2.5	78	86	60-88	10
2-Chlorophenol	ug/L (ppb)	2.5	46	48	10-89	4
1,3-Dichlorobenzene	ug/L (ppb)	2.5	76	80	48-91	5
1,4-Dichlorobenzene	ug/L (ppb)	2.5	76	82	48-91	8
1,2-Dichlorobenzene	ug/L (ppb)	2.5	79	84	52-92	6
Benzyl alcohol	ug/L (ppb)	7.5	34	34	10-72	0
2,2'-Oxybis(1-chloropropane)	ug/L (ppb)	2.5	84	87 vo	59-86	4
2-Methylphenol	ug/L (ppb)	2.5	42	40	10-75	5
Hexachloroethane	ug/L (ppb)	2.5	78	79	47-92	1
N-Nitroso-di-n-propylamine	ug/L (ppb)	2.5	88	94	70-130	7
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	2.5	33	32	10-66	3
Nitrobenzene	ug/L (ppb)	2.5	78	84	60-90	7
Isophorone	ug/L (ppb)	2.5	88	94	70-130	7
2-Nitrophenol	ug/L (ppb)	2.5	60	69	27-104	14
2,4-Dimethylphenol	ug/L (ppb)	2.5	69	69	10-84	0
Benzoic acid	ug/L (ppb)	20	4 vo	4 vo	10-102	0
Bis(2-chloroethoxy)methane	ug/L (ppb)	2.5	89	93	55-103	4
2,4-Dichlorophenol	ug/L (ppb)	2.5	60	65	23-103	8
1,2,4-Trichlorobenzene	ug/L (ppb)	2.5	81	86	56-93	6
Naphthalene	ug/L (ppb)	2.5	80	84	62-90	5
Hexachlorobutadiene	ug/L (ppb)	2.5	72	76	48-85	5
4-Chloroaniline	ug/L (ppb)	7.5	74	82	35-108	10
4-Chloro-3-methylphenol	ug/L (ppb)	2.5	67	67	18-109	0
2-Methylnaphthalene	ug/L (ppb)	2.5	81	83	64-93	2
1-Methylnaphthalene	ug/L (ppb)	2.5	80	82	64-93	2
Hexachlorocyclopentadiene	ug/L (ppb)	2.5	71	82	49-112	14
2,4,6-Trichlorophenol	ug/L (ppb)	2.5	49	60	16-112	20
2,4,5-Trichlorophenol	ug/L (ppb)	2.5	57	65	26-113	13
2-Chloronaphthalene	ug/L (ppb)	2.5	86	90	67-97	5
2-Nitroaniline	ug/L (ppb)	7.5	89	96	31-168	8
Dimethyl phthalate	ug/L (ppb)	2.5	94	97	70-130	3
Acenaphthylene	ug/L (ppb)	2.5	89	93	70-130	4
2,6-Dinitrotoluene	ug/L (ppb)	2.5	92	96	70-130	4
3-Nitroaniline	ug/L (ppb)	7.5	78	82	33-120	5
Acenaphthene	ug/L (ppb)	2.5	84	87	70-130	4
2,4-Dinitrophenol	ug/L (ppb)	5	40	45	10-120	12
Dibenzofuran	ug/L (ppb)	2.5	79	81	67-107	2
2,4-Dinitrotoluene	ug/L (ppb)	2.5	77	76	53-132	1
4-Nitrophenol	ug/L (ppb)	5	6 vo	7 vo	10-89	15
Diethyl phthalate	ug/L (ppb)	2.5	92	89	70-130	3
Fluorene	ug/L (ppb)	2.5	87	88	70-130	1
4-Chlorophenyl phenyl ether	ug/L (ppb)	2.5	89	90	70-130	1
N-Nitrosodiphenylamine	ug/L (ppb)	2.5	91	100	70-130	9
4-Nitroaniline	ug/L (ppb)	7.5	77	82	32-122	6
4,6-Dinitro-2-methylphenol	ug/L (ppb)	2.5	49	60	10-139	20
4-Bromophenyl phenyl ether	ug/L (ppb)	2.5	88	96	70-130	9
Hexachlorobenzene	ug/L (ppb)	2.5	72	77	65-95	7
Pentachlorophenol	ug/L (ppb)	2.5	46	55	10-129	18
Phenanthrene	ug/L (ppb)	2.5	88	93	70-130	6
Anthracene	ug/L (ppb)	2.5	88	92	70-130	4
Carbazole	ug/L (ppb)	2.5	91	96	70-130	5
Di-n-butyl phthalate	ug/L (ppb)	2.5	101	97	28-147	4
Fluoranthene	ug/L (ppb)	2.5	89	94	70-130	5
Pyrene	ug/L (ppb)	2.5	98	100	70-130	2
Benzyl butyl phthalate	ug/L (ppb)	2.5	89	92	34-142	3
Benz(a)anthracene	ug/L (ppb)	2.5	95	98	70-130	3
Chrysene	ug/L (ppb)	2.5	93	95	70-130	2
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	2.5	91	95	53-133	4
Di-n-octyl phthalate	ug/L (ppb)	2.5	78	85	49-119	9
Benzo(a)pyrene	ug/L (ppb)	2.5	95	99	70-130	4
Benzo(b)fluoranthene	ug/L (ppb)	2.5	93	113	70-130	19
Benzo(k)fluoranthene	ug/L (ppb)	2.5	93	97	70-130	4
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	2.5	94	93	70-130	1
Dibenz(a,h)anthracene	ug/L (ppb)	2.5	92	90	70-130	2
Benzo(g,h,i)perylene	ug/L (ppb)	2.5	92	92	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/21

Date Received: 10/01/21

Project: Basin Oil, F&BI 110004

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	48	56	25-111	15
Aroclor 1260	ug/L (ppb)	0.13	53	67	23-123	23 vo

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

110004

rk@epiconsult.com

SAMPLE CHAIN OF CUSTODY ME 10/01/21 W1/AT/EP3

Report To John F. Uep Consulting.com

Company Urban Environmental Partners, LLC

Address 2324 1st Avenue, Ste. 203

City, State, ZIP Seattle, Wa. 98121

Phone (425) 939-9922 Email _____

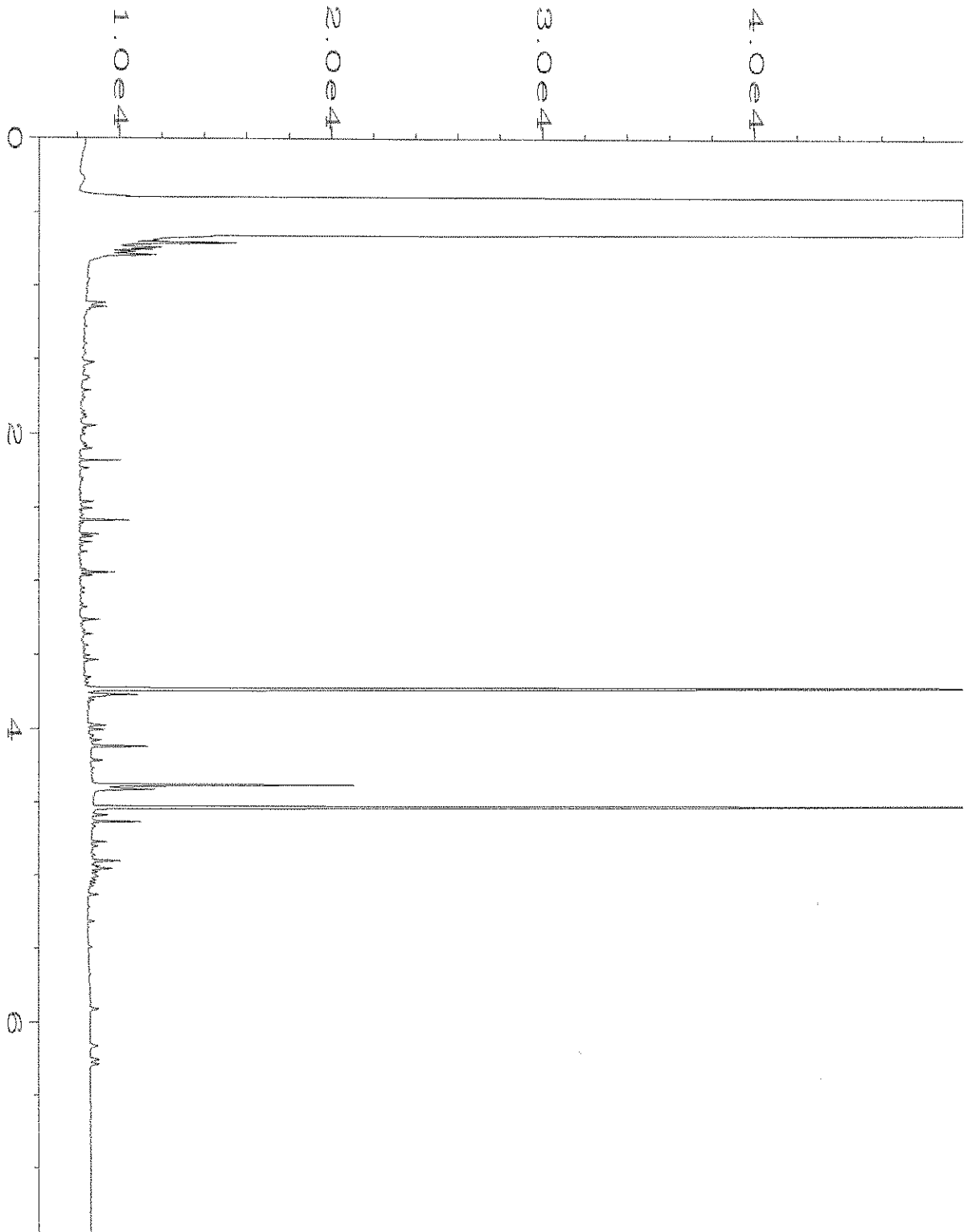
SAMPLERS (Signature) <u>Matthew D. Conrad</u>		PO #
PROJECT NAME <u>Rain Oil</u>		INVOICE TO <u>UEP</u>
REMARKS		ANALYSES REQUESTED
Project specific RI? - Yes / No		<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____ SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	SVOCS	RCRA Total	RCRA Dissolved					
MJBA1	01A-G	10/1/21	0735	H ₂ O	7	X				X				X						
MJBA2	02 V	10/1/21	0815	H ₂ O	7	X				X				X						

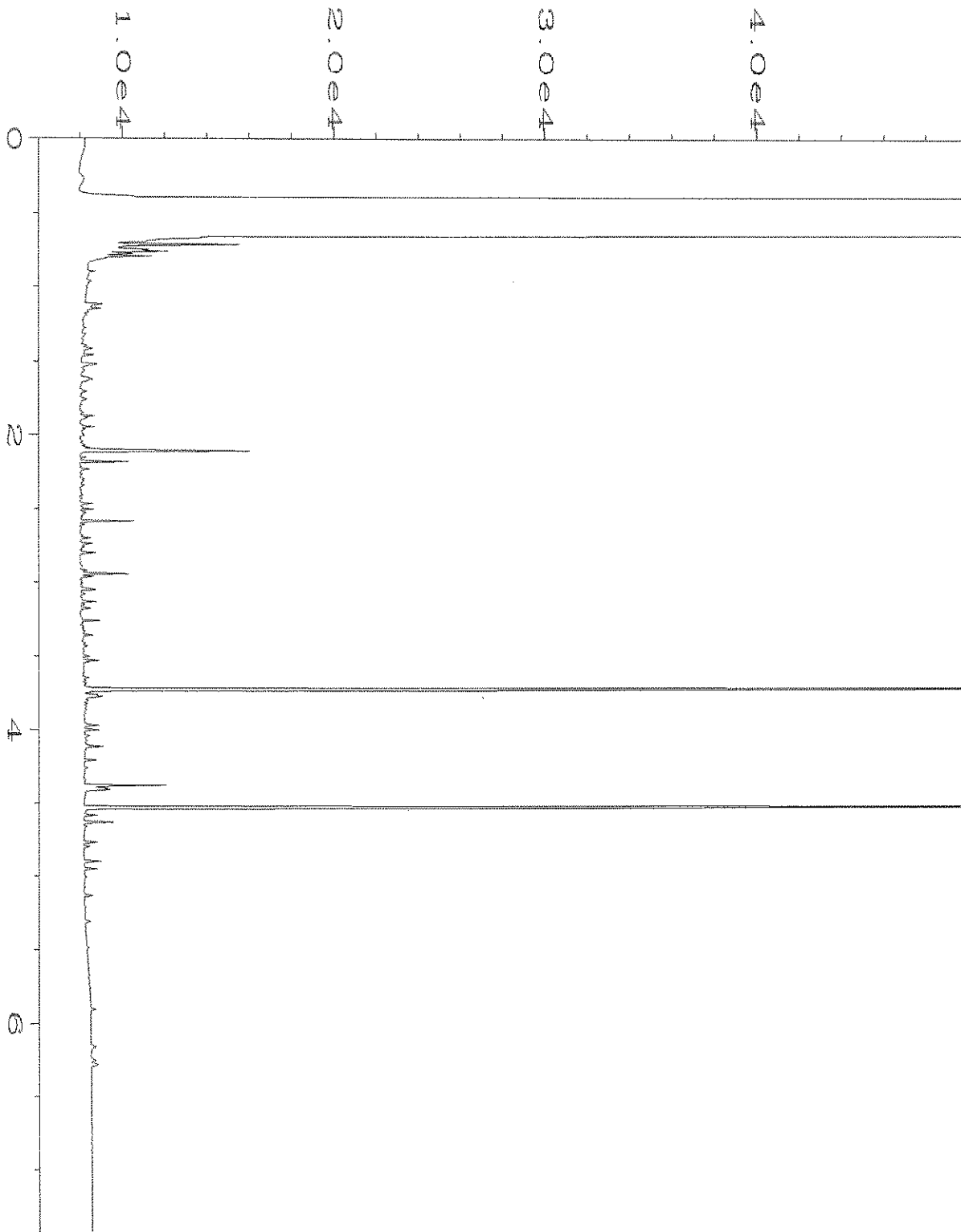
Samples received at 4 °C

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Matthew D. Conrad</u>		<u>Matthew D. Conrad</u>		<u>UEP LLC</u>		<u>10/1/21</u>	
Received by: <u>Matthew Conrad</u>		<u>Matthew Conrad</u>		<u>UEP LLC</u>		<u>10/1/21</u>	<u>0920</u>
Relinquished by:							
Received by:							

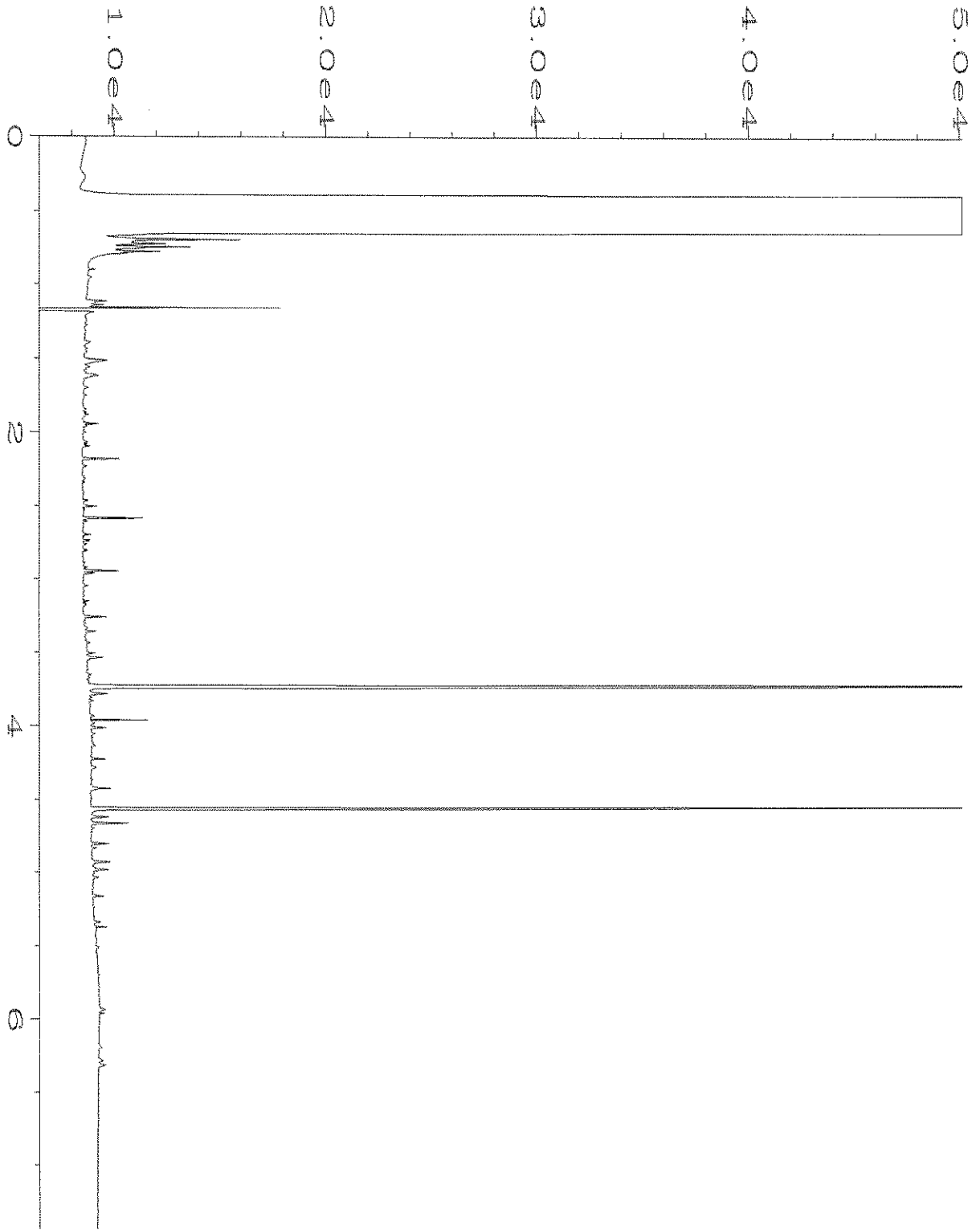
Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282



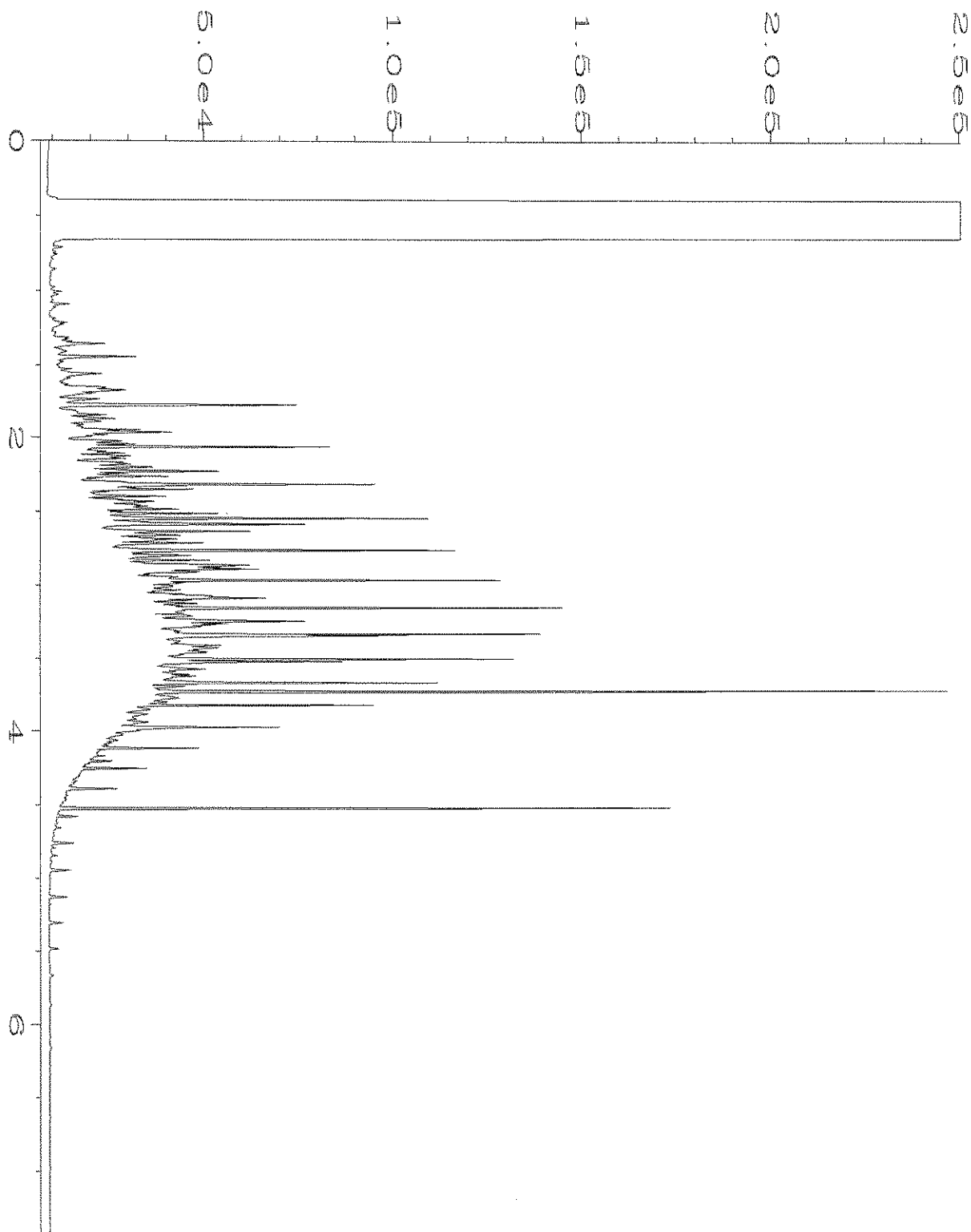
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Operator	: TL	Vial Number	: 15
Instrument	: GC1	Injection Number	: 1
Sample Name	: 110004-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 21 01:31 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 21 09:43 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-21\016F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 110004-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 21 01:42 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 21 09:43 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-21\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 01-2268 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 21 11:48 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 21 09:42 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-21\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 63-79C	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 21 05:50 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 21 09:43 AM		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2022 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 209032 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
209032 -01	S-3-3(8")
209032 -02	S-3-4(16")
209032 -03	S-8-2(4")
209032 -04	S-8-3(8")
209032 -05	S-6-2(4")
209032 -06	S-6-3(8")
209032 -07	S-9-2(4")
209032 -08	S-9-3(8")

The 8270E pyrene laboratory control sample failed the acceptance criteria. The affected samples were flagged accordingly.

The 8082A matrix spike and matrix spike duplicate failed the relative percent difference. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22
Date Received: 09/02/22
Project: Basin Oil, F&BI 209032
Date Extracted: 09/12/22
Date Analyzed: 09/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
USING METHOD 8021B**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
S-6-2(4") 209032-05	<0.02	<0.02	<0.02	<0.06	100
Method Blank 02-2076 MB	<0.02	<0.02	<0.02	<0.06	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22
Date Received: 09/02/22
Project: Basin Oil, F&BI 209032
Date Extracted: 09/12/22
Date Analyzed: 09/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
S-3-4(16") 209032-02	<0.02	<0.02	<0.02	<0.06	<5	100
S-9-2(4") 209032-07	<0.02	<0.02	<0.02	<0.06	<5	99
Method Blank 02-2076 MB	<0.02	<0.02	<0.02	<0.06	<5	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22
Date Received: 09/02/22
Project: Basin Oil, F&BI 209032
Date Extracted: 09/06/22
Date Analyzed: 09/06/22 and 09/07/22

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165)
S-3-3(8") 209032-01	<50	<250	106
S-3-4(16") 209032-02	<50	<250	108
S-8-2(4") 209032-03	<50	<250	102
S-6-2(4") 209032-05	<50	<250	105
S-9-2(4") 209032-07	77 x	710	78
Method Blank 02-2116 MB	<50	<250	105
Method Blank 02-2124 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-3-4(16")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/12/22	Lab ID:	209032-02
Date Analyzed:	09/14/22	Data File:	209032-02.221
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.08
Cadmium	<1
Chromium	9.93
Lead	4.24
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-6-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	209032-05
Date Analyzed:	09/08/22	Data File:	209032-05.044
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.21
Cadmium	<1
Chromium	8.93
Lead	35.9
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	S-9-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	209032-07
Date Analyzed:	09/08/22	Data File:	209032-07.045
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.8
Cadmium	2.69
Chromium	10.5
Lead	213
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	I2-620 mb
Date Analyzed:	09/07/22	Data File:	I2-620 mb.140
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/12/22	Lab ID:	I2-629 mb
Date Analyzed:	09/12/22	Data File:	I2-629 mb.048
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<5
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-3-3(8")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/02/22	Lab ID:	209032-01 1/5
Date Analyzed:	09/02/22	Data File:	090210.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	64	16	137
2-Fluorobiphenyl	67	46	122
2,4,6-Tribromophenol	70	17	154
Terphenyl-d14	79	31	167

Compounds: mg/kg (ppm)

Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-3-4(16")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	209032-02 1/5
Date Analyzed:	09/07/22	Data File:	090709.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	61	10	198
2-Fluorobiphenyl	68	45	117
2,4,6-Tribromophenol	66	11	158
Terphenyl-d14	83	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-8-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	209032-03 1/5
Date Analyzed:	09/07/22	Data File:	090715.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	75	10	198
2-Fluorobiphenyl	84	45	117
2,4,6-Tribromophenol	80	11	158
Terphenyl-d14	88	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.036
2-Methylnaphthalene	0.026
1-Methylnaphthalene	0.028
Acenaphthylene	<0.01
Acenaphthene	0.089
Fluorene	0.073
Phenanthrene	1.2
Anthracene	0.20
Fluoranthene	1.1
Pyrene	1.3
Benz(a)anthracene	0.50
Chrysene	0.50
Benzo(a)pyrene	0.58
Benzo(b)fluoranthene	0.55
Benzo(k)fluoranthene	0.21
Indeno(1,2,3-cd)pyrene	0.21
Dibenz(a,h)anthracene	0.040
Benzo(g,h,i)perylene	0.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-6-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/02/22	Lab ID:	209032-05 1/25
Date Analyzed:	09/02/22	Data File:	090211.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	64 d	16	137
2-Fluorobiphenyl	70 d	46	122
2,4,6-Tribromophenol	70 d	17	154
Terphenyl-d14	81 d	31	167

Compounds:	mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	0.21
Anthracene	<0.05
Fluoranthene	0.41
Pyrene	0.38 jl
Benz(a)anthracene	0.17
Chrysene	0.18
Benzo(a)pyrene	0.20
Benzo(b)fluoranthene	0.24
Benzo(k)fluoranthene	0.076
Indeno(1,2,3-cd)pyrene	0.12
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	S-9-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/02/22	Lab ID:	209032-07 1/25
Date Analyzed:	09/02/22	Data File:	090214.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	48 d	16	137
2-Fluorobiphenyl	64 d	46	122
2,4,6-Tribromophenol	66 d	17	154
Terphenyl-d14	72 d	31	167

Compounds:	mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	0.067
Fluorene	0.053
Phenanthrene	0.98
Anthracene	0.18
Fluoranthene	1.1
Pyrene	1.3 j]
Benz(a)anthracene	0.51
Chrysene	0.54
Benzo(a)pyrene	0.62
Benzo(b)fluoranthene	0.70
Benzo(k)fluoranthene	0.24
Indeno(1,2,3-cd)pyrene	0.21
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	0.20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/02/22	Lab ID:	02-2107 mb2 1/5
Date Analyzed:	09/02/22	Data File:	090206.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	89	16	137
2-Fluorobiphenyl	96	46	122
2,4,6-Tribromophenol	84	17	154
Terphenyl-d14	98	31	167

Compounds: mg/kg (ppm)

Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	02-2126 mb 1/5
Date Analyzed:	09/07/22	Data File:	090708.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	87	10	198
2-Fluorobiphenyl	89	45	117
2,4,6-Tribromophenol	85	11	158
Terphenyl-d14	105	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-3-3(8")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	209032-01 1/6
Date Analyzed:	09/06/22	Data File:	090606.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	16 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-3-3(8")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	209032-01 1/300
Date Analyzed:	09/06/22	Data File:	090618.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	23	120

Compounds:	Concentration
Aroclor 1260	mg/kg (ppm)
	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-3-4(16")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/09/22	Lab ID:	209032-02 1/6
Date Analyzed:	09/09/22	Data File:	090905.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.0
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-8-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	209032-03 1/6
Date Analyzed:	09/08/22	Data File:	090808.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.34
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-6-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	209032-05 1/6
Date Analyzed:	09/06/22	Data File:	090616.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.24
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	S-9-2(4")	Client:	Urban Environmental Partners
Date Received:	09/02/22	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	209032-07 1/6
Date Analyzed:	09/06/22	Data File:	090608.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.59
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/06/22	Lab ID:	02-2115 mb 1/6
Date Analyzed:	09/06/22	Data File:	090604.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/09/22	Lab ID:	02-2129 mb2 1/6
Date Analyzed:	09/09/22	Data File:	090904.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	118	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 209032
Date Extracted:	09/07/22	Lab ID:	02-2115 mb2 1/6
Date Analyzed:	09/08/22	Data File:	090806.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209071-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	0.039	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	92	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209043-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	80	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209032-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	100	112	73-135	11

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	110	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209097-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	3.13	93	93	75-125	0
Cadmium	mg/kg (ppm)	10	<1	103	105	75-125	2
Chromium	mg/kg (ppm)	50	15.8	104	112	75-125	7
Lead	mg/kg (ppm)	50	2.48	102	104	75-125	2
Mercury	mg/kg (ppm)	5	<1	106	109	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	100	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Chromium	mg/kg (ppm)	50	107	80-120
Lead	mg/kg (ppm)	50	106	80-120
Mercury	mg/kg (ppm)	5	110	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209023-31 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	76	81	75-125	6
Cadmium	mg/kg (ppm)	10	<5	92	86	75-125	7
Chromium	mg/kg (ppm)	50	11.6	84	79	75-125	6
Lead	mg/kg (ppm)	50	12.8	89	92	75-125	3
Mercury	mg/kg (ppm)	5	<5	95	91	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	83	80-120
Cadmium	mg/kg (ppm)	10	94	80-120
Chromium	mg/kg (ppm)	50	93	80-120
Lead	mg/kg (ppm)	50	95	80-120
Mercury	mg/kg (ppm)	5	106	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 208466-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	88	86	50-150	2
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	88	88	50-150	0
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	87	89	50-150	2
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	94	93	50-150	1
Acenaphthene	mg/kg (ppm)	0.83	<0.01	88	87	50-150	1
Fluorene	mg/kg (ppm)	0.83	<0.01	92	92	50-150	0
Phenanthrene	mg/kg (ppm)	0.83	<0.01	96	97	10-170	1
Anthracene	mg/kg (ppm)	0.83	<0.01	96	99	50-150	3
Fluoranthene	mg/kg (ppm)	0.83	<0.01	103	101	10-203	2
Pyrene	mg/kg (ppm)	0.83	0.012	104	115	10-208	10
Benzo(a)anthracene	mg/kg (ppm)	0.83	<0.01	100	104	37-146	4
Chrysene	mg/kg (ppm)	0.83	0.011	97	102	36-144	5
Benzo(a)pyrene	mg/kg (ppm)	0.83	<0.01	99	101	40-150	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	0.011	99	103	45-157	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	<0.01	97	94	50-150	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	<0.01	108	106	24-145	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	108	106	31-137	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	<0.01	106	102	14-141	4

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	95	61-102
2-Methylnaphthalene	mg/kg (ppm)	0.83	98	62-108
1-Methylnaphthalene	mg/kg (ppm)	0.83	98	62-108
Acenaphthylene	mg/kg (ppm)	0.83	101	61-111
Acenaphthene	mg/kg (ppm)	0.83	95	61-110
Fluorene	mg/kg (ppm)	0.83	100	62-114
Phenanthrene	mg/kg (ppm)	0.83	104	64-112
Anthracene	mg/kg (ppm)	0.83	102	63-111
Fluoranthene	mg/kg (ppm)	0.83	108	66-115
Pyrene	mg/kg (ppm)	0.83	117 vo	65-112
Benzo(a)anthracene	mg/kg (ppm)	0.83	106	64-116
Chrysene	mg/kg (ppm)	0.83	104	66-119
Benzo(a)pyrene	mg/kg (ppm)	0.83	104	62-116
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	104	61-118
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	99	65-119
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	119	64-130
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	116	67-131
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	112	67-126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

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

Laboratory Code: 209032-03 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	0.033	74	78	28-125	5
2-Methylnaphthalene	mg/kg (ppm)	0.83	0.024	81	85	10-192	5
1-Methylnaphthalene	mg/kg (ppm)	0.83	0.025	80	85	10-163	6
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	88	87	45-128	1
Acenaphthene	mg/kg (ppm)	0.83	0.081	80	82	36-125	2
Fluorene	mg/kg (ppm)	0.83	0.067	84	86	48-121	2
Phenanthrene	mg/kg (ppm)	0.83	1.1	29 b	66 b	50-150	78 b
Anthracene	mg/kg (ppm)	0.83	0.18	80 b	88 b	50-150	10 b
Fluoranthene	mg/kg (ppm)	0.83	0.97	52 b	76 b	50-150	37 b
Pyrene	mg/kg (ppm)	0.83	1.2	46 b	91 b	40-134	66 b
Benzo(a)anthracene	mg/kg (ppm)	0.83	0.45	74 b	88 b	50-150	17 b
Chrysene	mg/kg (ppm)	0.83	0.45	68 b	82 b	50-150	19 b
Benzo(a)pyrene	mg/kg (ppm)	0.83	0.53	74 b	92 b	50-150	22 b
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	0.50	77 b	101 b	50-150	27 b
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	0.19	96 b	104 b	50-150	8 b
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	0.19	43 b	39 b	41-134	10 b
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	0.036	52	49	44-130	6
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	0.17	34 b	30 b	33-131	12 b

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	88	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	90	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	90	66-107
Acenaphthylene	mg/kg (ppm)	0.83	96	70-130
Acenaphthene	mg/kg (ppm)	0.83	94	66-112
Fluorene	mg/kg (ppm)	0.83	96	67-117
Phenanthrene	mg/kg (ppm)	0.83	100	70-130
Anthracene	mg/kg (ppm)	0.83	102	70-130
Fluoranthene	mg/kg (ppm)	0.83	105	70-130
Pyrene	mg/kg (ppm)	0.83	105	70-130
Benzo(a)anthracene	mg/kg (ppm)	0.83	104	70-130
Chrysene	mg/kg (ppm)	0.83	101	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	102	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	103	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	101	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	114	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	113	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	113	64-127

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 209032-01 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	98	95	44-107	3
Aroclor 1260	mg/kg (ppm)	0.25	14 ve	3000 b	5500 b	38-124	59 b

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	93	47-158
Aroclor 1260	mg/kg (ppm)	0.25	93	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/22

Date Received: 09/02/22

Project: Basin Oil, F&BI 209032

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 208418-05 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	118 vo	83	44-107	35 vo
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	112	76	38-124	38 vo

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	80	47-158
Aroclor 1260	mg/kg (ppm)	0.25	80	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

209032

9/2/22 D01

SAMPLE CHAIN OF CUSTODY

Report To johnf@uepconsulting.com
matthewg@uepconsulting.com

Company Urban Environmental Partners llc
 Address 2324 1st Ave. Suite 203
 City, State, ZIP Seattle, WA 98121

Phone (425) 922-9922 Email _____

SAMPLERS (signature) John R. Funderback
 PROJECT NAME Basin Oil
 PO # _____
 REMARKS _____
 INVOICE TO UEP
 Protect Specific RIs - Yes / No _____

Page # 1 of 1
 TURNAROUND TIME
 Standard Turnaround _____
 RUSH 72-hr ~~24-hr~~ TAT 24-hr TAT
 Rush charges authorized by: per JRF
 SAMPLE DISPOSAL
 Dispose after 30 days
 Archive samples
 Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
S-3-3 (8")	01	9/2/22	5	9:45	X	X	X	X	X	X	X	per R/R 9/6/22 Notes ME
S-3-4 (16")	02			9:46	X	X	X	X	X	X	X	more analysis after three
S-8-2 (4")	03				X	X	X	X	X	X	X	see analysis
S-8-3 (8")	04				X	X	X	X	X	X	X	9/6/22
S-6-2 (4")	05			8:20	X	X	X	X	X	X	X	
S-6-2 (8")	06			8:24	X	X	X	X	X	X	X	
S-9-2 (4")	07			8:32	X	X	X	X	X	X	X	need 48-hr TAT
S-9-3 (8")	08			8:34	X	X	X	X	X	X	X	all others 2-week or standard TAT

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

SIGNATURE _____ PRINT NAME John R. Funderback COMPANY UEP llc DATE 9/2 TIME 12:22
 Relinquished by: John R. Funderback
 Received by: John R. Funderback DATE 9/2/22 TIME 10:22

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

February 4, 2022

John Funderburk, Project Manager
Urban Environmental Partners
2324 1st Ave, Suite 203
Seattle, WA 98121

Dear Mr Funderburk:

Included are the results from the testing of material submitted on January 17, 2022 from the Basin Oil, F&BI 201213 project. There are 27 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
UEP0204R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 17, 2022 by Friedman & Bruya, Inc. from the Urban Environmental Partners Basin Oil, F&BI 201213 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Urban Environmental Partners</u>
201213 -01	MW-B01
201213 -02	MW-B02

The NWTPH-Dx surrogate for sample MW-B02 exceeded the acceptance criteria. Nothing was detected in the sample, therefore the data were acceptable.

The dissolved metals sample MW-B01 was filtered at Friedman and Bruya on January 19, 2022. The data were flagged accordingly.

Methylene chloride was detected in the 8260D analysis of sample MW-B01. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22
Date Received: 01/17/22
Project: Basin Oil, F&BI 201213
Date Extracted: 01/19/21
Date Analyzed: 01/19/21

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

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
MW-B01 201213-01	<50	<250	147
MW-B02 201213-02	<50	<250	156 vo
Method Blank 02-0188 MB	<50	<250	144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/19/22	Lab ID:	201213-01
Date Analyzed:	01/19/22	Data File:	201213-01.202
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	10.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-B02 f	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/20/22	Lab ID:	201213-02
Date Analyzed:	01/20/22	Data File:	201213-02.042
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	9.21
Barium	30.5
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/19/22	Lab ID:	I2-43 mb
Date Analyzed:	01/19/22	Data File:	I2-43 mb.070
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank f	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/20/22	Lab ID:	I2-42 mb
Date Analyzed:	01/20/22	Data File:	I2-42 mb.037
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/21/22	Lab ID:	201213-01
Date Analyzed:	01/21/22	Data File:	201213-01.102
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	10.6
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/21/22	Lab ID:	201213-02
Date Analyzed:	01/21/22	Data File:	201213-02.103
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	27.3
Barium	31.3
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	NA	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/21/22	Lab ID:	I2-50 mb
Date Analyzed:	01/21/22	Data File:	I2-50 mb.044
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/24/22	Lab ID:	201213-01
Date Analyzed:	01/24/22	Data File:	012412.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	102	90	111

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	8.4 lc	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/24/22	Lab ID:	201213-02
Date Analyzed:	01/24/22	Data File:	012413.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	94	88	112
4-Bromofluorobenzene	101	90	111

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/24/22	Lab ID:	02-200 mb
Date Analyzed:	01/24/22	Data File:	012407.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	103	90	111

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/20/22	Lab ID:	201213-01
Date Analyzed:	01/21/22	Data File:	012019.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	21	11	65
Phenol-d6	13	11	65
Nitrobenzene-d5	86	50	150
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	86	10	140
Terphenyl-d14	94	50	150

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/20/22	Lab ID:	201213-02
Date Analyzed:	01/21/22	Data File:	012020.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	16	11	65
Phenol-d6	11	11	65
Nitrobenzene-d5	68	50	150
2-Fluorobiphenyl	75	44	108
2,4,6-Tribromophenol	84	10	140
Terphenyl-d14	93	50	150

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 201213
Date Extracted:	01/20/22	Lab ID:	02-191 mb3
Date Analyzed:	01/20/22	Data File:	012008.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	25	11	65
Phenol-d6	14	11	65
Nitrobenzene-d5	84	50	150
2-Fluorobiphenyl	85	44	108
2,4,6-Tribromophenol	77	10	140
Terphenyl-d14	102	50	150

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B01	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	02/01/22	Lab ID:	201213-01 1/0.5
Date Analyzed:	02/02/22	Data File:	020207.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	30	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01
Aroclor 1232	<0.01
Aroclor 1016	<0.01
Aroclor 1242	<0.01
Aroclor 1248	<0.01
Aroclor 1254	<0.01
Aroclor 1260	<0.01
Aroclor 1262	<0.01
Aroclor 1268	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	MW-B02	Client:	Urban Environmental Partners
Date Received:	01/17/22	Project:	Basin Oil, F&BI 201213
Date Extracted:	02/01/22	Lab ID:	201213-02 1/0.5
Date Analyzed:	02/02/22	Data File:	020208.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	40	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01
Aroclor 1232	<0.01
Aroclor 1016	<0.01
Aroclor 1242	<0.01
Aroclor 1248	<0.01
Aroclor 1254	<0.01
Aroclor 1260	<0.01
Aroclor 1262	<0.01
Aroclor 1268	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Urban Environmental Partners
Date Received:	Not Applicable	Project:	Basin Oil, F&BI 201213
Date Extracted:	02/01/22	Lab ID:	02-273 mb 1/0.5
Date Analyzed:	02/02/22	Data File:	020206.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	46	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01
Aroclor 1232	<0.01
Aroclor 1016	<0.01
Aroclor 1242	<0.01
Aroclor 1248	<0.01
Aroclor 1254	<0.01
Aroclor 1260	<0.01
Aroclor 1262	<0.01
Aroclor 1268	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	112	128	63-142	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: 201232-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	4.09	93	96	75-125	3
Barium	ug/L (ppb)	50	12.7	94	96	75-125	2
Cadmium	ug/L (ppb)	5	<1	92	92	75-125	0
Chromium	ug/L (ppb)	20	<1	99	99	75-125	0
Lead	ug/L (ppb)	10	<1	87	88	75-125	1
Mercury	ug/L (ppb)	5	<1	90	91	75-125	1
Selenium	ug/L (ppb)	5	<1	95	98	75-125	3
Silver	ug/L (ppb)	5	<1	92	93	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	92	80-120
Barium	ug/L (ppb)	50	93	80-120
Cadmium	ug/L (ppb)	5	93	80-120
Chromium	ug/L (ppb)	20	92	80-120
Lead	ug/L (ppb)	10	92	80-120
Mercury	ug/L (ppb)	5	93	80-120
Selenium	ug/L (ppb)	5	97	80-120
Silver	ug/L (ppb)	5	95	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: 201244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	8.92	119	113	75-125	5
Barium	ug/L (ppb)	50	39.6	168 b	142 b	75-125	17 b
Cadmium	ug/L (ppb)	5	<1	95	94	75-125	1
Chromium	ug/L (ppb)	20	4.19	113	108	75-125	5
Lead	ug/L (ppb)	10	<1	120	107	75-125	11
Mercury	ug/L (ppb)	5	<1	86	90	75-125	5
Selenium	ug/L (ppb)	5	<1	93	92	75-125	1
Silver	ug/L (ppb)	5	<1	98	98	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	88	80-120
Barium	ug/L (ppb)	50	97	80-120
Cadmium	ug/L (ppb)	5	91	80-120
Chromium	ug/L (ppb)	20	98	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	92	80-120
Selenium	ug/L (ppb)	5	89	80-120
Silver	ug/L (ppb)	5	99	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: 201247-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	94	98	75-125	4
Barium	ug/L (ppb)	50	5.07	98	104	75-125	6
Cadmium	ug/L (ppb)	5	<1	95	100	75-125	5
Chromium	ug/L (ppb)	20	<1	94	96	75-125	2
Lead	ug/L (ppb)	10	<1	85	89	75-125	5
Mercury	ug/L (ppb)	5	<1	95	93	75-125	2
Selenium	ug/L (ppb)	5	<1	94	98	75-125	4
Silver	ug/L (ppb)	5	<1	93	96	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	92	80-120
Barium	ug/L (ppb)	50	96	80-120
Cadmium	ug/L (ppb)	5	94	80-120
Chromium	ug/L (ppb)	20	92	80-120
Lead	ug/L (ppb)	10	89	80-120
Mercury	ug/L (ppb)	5	90	80-120
Selenium	ug/L (ppb)	5	92	80-120
Silver	ug/L (ppb)	5	94	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: 201313-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	79	50-150
Chloromethane	ug/L (ppb)	10	<10	111	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	73	16-176
Bromomethane	ug/L (ppb)	10	<5	103	10-193
Chloroethane	ug/L (ppb)	10	<1	89	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	68	50-150
Acetone	ug/L (ppb)	50	<50	141	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	54	50-150
Hexane	ug/L (ppb)	10	<5	16 ip	49-161
Methylene chloride	ug/L (ppb)	10	<5	62	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	72	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	47 ip	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	66	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	65	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	54	50-150
Chloroform	ug/L (ppb)	10	<1	63	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	74	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	67	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	56	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	37 ip	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	50	50-150
Benzene	ug/L (ppb)	10	<0.35	33 ip	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	39 ip	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	51	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	61	50-150
Dibromomethane	ug/L (ppb)	10	<1	58	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	44 ip	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	38 ip	48-145
Toluene	ug/L (ppb)	10	<1	23 ip	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	38	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	50	50-150
2-Hexanone	ug/L (ppb)	50	<10	40 ip	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	45 ip	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	27 ip	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	48	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	44 ip	50-150
Chlorobenzene	ug/L (ppb)	10	<1	18 ip	50-150
Ethylbenzene	ug/L (ppb)	10	<1	15 ip	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	39 ip	50-150
m,p-Xylene	ug/L (ppb)	20	<2	12 ip	50-150
o-Xylene	ug/L (ppb)	10	<1	12 ip	50-150
Styrene	ug/L (ppb)	10	<1	8 ip	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	10 ip	50-150
Bromoform	ug/L (ppb)	10	<5	43	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	9 ip	50-150
Bromobenzene	ug/L (ppb)	10	<1	16 ip	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	8 ip	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	43	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	46	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	13 ip	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	10 ip	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	8 ip	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	6 ip	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	6 ip	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	6 ip	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	10 ip	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	10 ip	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	11 ip	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	29 ip	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	3 ip	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	4 ip	42-150
Naphthalene	ug/L (ppb)	10	<1	1 ip	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	3 ip	44-155

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	87	89	70-130	2
Chloromethane	ug/L (ppb)	10	94	99	70-130	5
Vinyl chloride	ug/L (ppb)	10	102	102	70-130	0
Bromomethane	ug/L (ppb)	10	134	131	28-182	2
Chloroethane	ug/L (ppb)	10	111	112	70-130	1
Trichlorofluoromethane	ug/L (ppb)	10	103	100	70-130	3
Acetone	ug/L (ppb)	50	92	91	42-155	1
1,1-Dichloroethene	ug/L (ppb)	10	107	105	70-130	2
Hexane	ug/L (ppb)	10	79	87	50-161	10
Methylene chloride	ug/L (ppb)	10	108	98	29-192	10
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	89	89	70-130	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	96	97	70-130	1
1,1-Dichloroethane	ug/L (ppb)	10	101	101	70-130	0
2,2-Dichloropropane	ug/L (ppb)	10	129	129	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	99	100	70-130	1
Chloroform	ug/L (ppb)	10	100	101	70-130	1
2-Butanone (MEK)	ug/L (ppb)	50	102	89	50-157	14
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	100	102	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	10	101	102	70-130	1
1,1-Dichloropropene	ug/L (ppb)	10	94	96	70-130	2
Carbon tetrachloride	ug/L (ppb)	10	103	103	70-130	0
Benzene	ug/L (ppb)	10	101	103	70-130	2
Trichloroethene	ug/L (ppb)	10	94	95	70-130	1
1,2-Dichloropropane	ug/L (ppb)	10	99	101	70-130	2
Bromodichloromethane	ug/L (ppb)	10	103	105	70-130	2
Dibromomethane	ug/L (ppb)	10	102	104	70-130	2
4-Methyl-2-pentanone	ug/L (ppb)	50	97	104	70-130	7
cis-1,3-Dichloropropene	ug/L (ppb)	10	91	93	70-130	2
Toluene	ug/L (ppb)	10	102	107	70-130	5
trans-1,3-Dichloropropene	ug/L (ppb)	10	108	115	70-130	6
1,1,2-Trichloroethane	ug/L (ppb)	10	103	108	70-130	5
2-Hexanone	ug/L (ppb)	50	101	106	69-130	5
1,3-Dichloropropane	ug/L (ppb)	10	96	105	70-130	9
Tetrachloroethene	ug/L (ppb)	10	96	100	70-130	4
Dibromochloromethane	ug/L (ppb)	10	107	111	63-142	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	108	111	70-130	3
Chlorobenzene	ug/L (ppb)	10	98	102	70-130	4
Ethylbenzene	ug/L (ppb)	10	102	108	70-130	6
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	103	107	70-130	4
m,p-Xylene	ug/L (ppb)	20	109	115	70-130	5
o-Xylene	ug/L (ppb)	10	102	107	70-130	5
Styrene	ug/L (ppb)	10	104	111	70-130	7
Isopropylbenzene	ug/L (ppb)	10	100	105	70-130	5
Bromoform	ug/L (ppb)	10	101	108	50-157	7
n-Propylbenzene	ug/L (ppb)	10	97	104	70-130	7
Bromobenzene	ug/L (ppb)	10	98	105	70-130	7
1,3,5-Trimethylbenzene	ug/L (ppb)	10	101	108	52-150	7
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	111	117	70-130	5
1,2,3-Trichloropropane	ug/L (ppb)	10	104	106	70-130	2
2-Chlorotoluene	ug/L (ppb)	10	98	103	70-130	5
4-Chlorotoluene	ug/L (ppb)	10	104	111	70-130	7
tert-Butylbenzene	ug/L (ppb)	10	94	101	70-130	7
1,2,4-Trimethylbenzene	ug/L (ppb)	10	102	107	70-130	5
sec-Butylbenzene	ug/L (ppb)	10	100	107	70-130	7
p-Isopropyltoluene	ug/L (ppb)	10	99	106	70-130	7
1,3-Dichlorobenzene	ug/L (ppb)	10	95	103	70-130	8
1,4-Dichlorobenzene	ug/L (ppb)	10	95	102	70-130	7
1,2-Dichlorobenzene	ug/L (ppb)	10	93	98	70-130	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	97	105	70-130	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	80	84	70-130	5
Hexachlorobutadiene	ug/L (ppb)	10	83	92	70-130	10
Naphthalene	ug/L (ppb)	10	78	83	70-130	6
1,2,3-Trichlorobenzene	ug/L (ppb)	10	81	87	69-143	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

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

Laboratory Code: Laboratory Control Sample 1/0.25

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1.3	80	83	62-90	4
2-Methylnaphthalene	ug/L (ppb)	1.3	81	80	64-93	1
1-Methylnaphthalene	ug/L (ppb)	1.3	83	82	64-93	1
Acenaphthylene	ug/L (ppb)	1.3	84	89	70-130	6
Acenaphthene	ug/L (ppb)	1.3	86	92	70-130	7
Fluorene	ug/L (ppb)	1.3	89	92	70-130	3
Phenanthrene	ug/L (ppb)	1.3	89	94	70-130	5
Anthracene	ug/L (ppb)	1.3	89	91	70-130	2
Fluoranthene	ug/L (ppb)	1.3	88	92	70-130	4
Pyrene	ug/L (ppb)	1.3	93	94	70-130	1
Benz(a)anthracene	ug/L (ppb)	1.3	92	93	70-130	1
Chrysene	ug/L (ppb)	1.3	92	93	70-130	1
Benzo(a)pyrene	ug/L (ppb)	1.3	86	86	70-130	0
Benzo(b)fluoranthene	ug/L (ppb)	1.3	95	94	70-130	1
Benzo(k)fluoranthene	ug/L (ppb)	1.3	95	96	70-130	1
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1.3	98	98	70-130	0
Dibenz(a,h)anthracene	ug/L (ppb)	1.3	103	100	70-130	3
Benzo(g,h,i)perylene	ug/L (ppb)	1.3	102	100	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/04/22

Date Received: 01/17/22

Project: Basin Oil, F&BI 201213

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	78	53	25-165	38 vo
Aroclor 1260	ug/L (ppb)	0.13	86	74	25-163	15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

201213

Report to John Funderbark UEP

Company UEP LLC

Address 2324 1st Ave

City, State, ZIP Seattle WA 98121

Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

01-17-22

EO3/AYY/vm

SAMPLERS (signature) <u>John Funderbark</u>	Page # <u>1</u> of <u>1</u>
PROJECT NAME <u>Basin Oil</u>	PO # _____
REMARKS	INVOICE TO _____
Project specific RI's? - Yes / <u>No</u>	SAMPLE DISPOSAL <input type="checkbox"/> Standard turnaround <input checked="" type="checkbox"/> RUSH Rush charges authorized by: _____
	<input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	KLRA 8 met	8 metal Dis			
MW-BO1	01A-I	1/5/22	3:20	W	9	X	X			X	X	X	X	X			✓ PPL
MW-BO2	02 ↓	1/5/22	4:20	W	9	X	X			X	X	X	X	X			✓ PPL

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>John R Funderbark</u>	<u>UEP LLC</u>	<u>1/17</u>	<u>8:33</u>
Relinquished by:				
Received by:	<u>[Signature]</u>	<u>AMN WEADERS</u>	<u>1/17</u>	<u>0833</u>
Relinquished by:				
Received by:				Samples received at <u>2</u> °C

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